REPORT
ON THE
1987 DISCHARGES
FROM
SEWAGE TREATMENT PLANTS
IN ONTARIO

OCTOBER 1988

Environment
Ontario

Jim Bradley
Minister

ERRATA SHEET

A MISTAKE WAS MADE IN APPENDIX B. ALL LAGOONS WITH BATCH PHOSPHORUS REMOVAL ARE INCORRECTLY INDICATED AS HAVING THE FOLLOWING EFFLUENT CRITERIA:

BIOCHEMICAL OXYGEN DEMAND : 30 MG/L

SUSPENDED SOLIDS : 40 MG/L

TOTAL PHOSPHORUS : 1 MG/L

THE CORRECT EFFLUENT CRITERIA FOR LAGOONS WITH BATCH PHOSPHORUS REMOVAL ARE:

BIOCHEMICAL OXYGEN DEMAND : 25 MG/L

SUSPENDED SOLIDS : 25 MG/L

TOTAL PHOSPHORUS : 1 MG/L

THE CORRECT EFFLUENT CRITERIA WERE USED IN THE ASSESSMENT OF SEWAGE TREATMENT PLANT COMPLIANCE STATUS IN SECTION 6.3, 6.4 AND APPENDIX A.

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EXECUTIVE SUMMARY

The 1987 Municipal Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STP's) in Ontario. Three parameters Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed. STP's failing Ministry of the Environment (MOE) sewage effluent quality guidelines for any one of the three parameters are said to be "out of compliance" in this report.

Four hundred and twelve plants were operating in 1987. Of these, 41 plants were not assessed for compliance. Eight plants provided insufficient data for assessment without reason, as compared to 17 from 1986. Morrisburg from Southeast is a repeat offender from last year.

Eleven STP's provided insufficient data with a reason. They were either new plants beginning operation in 1987, or were being upgraded in that year. Twenty-two plants did not discharge to surface water.

Of the 371 plants assessed, 138 (37 %) were out of compliance with the Ministry sewage effluent quality guidelines. This is an improvement over 1986, in which 151 of 362 (42 %) plants assessed were out of compliance.

Specifically, 17 STP's (5 % of the total number of STP's assessed) failed BOD in 1987, as compared to 18 (5 %) in 1986. Fifty-three (14 %) failed SS in 1987, as compared to 47 (13 %) in 1986. TP showed an improvement in 1987. Eighty-seven continuous discharge STP's and 13 seasonal and annual lagoons (27 %) failed the monthly requirement this year as compared to a total of 126 (35 %) in 1986. Of the continuous discharge STP's in 1987, 33 plants failed TP for one month, 28 for 2 to 3 months and 26 for greater than 3 months.

46 plants failed compliance in 3 successive years. All of these plants have remedial action.

Bypasses were reported for the first time in 1987. The data were very incomplete. Only 76 STP's reported bypass data, although bypasses may have occurred at many plants. Fourteen verified that no bypass occurred at their plants. Sixty-two plants reported having one or more bypass(es) in 1987. Furthermore, only 4 plants submitted the complete set of data for volume, duration and number of instances for secondary bypass and 10 plants for raw sewage bypass. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

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1.0 INTRODUCTION

The 1987 Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STP's) in Ontario. Three parameters, Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed. STP's not meeting Ministry sewage effluent quality guidelines for any one of the three parameters are identified as being out of compliance.

This report provides useful information for the Ministry to prioritize STP's for remedial actions. Through remedial actions, fewer plants will be out of compliance in the future, thereby improving the quality of Ontario's surface waters.

The main text of this report presents a brief summary of the number of plants failing BOD, SS and/or TP. A comparison between compliance status between 1981 and 1987 are also discussed. In addition, plants that did not provide sufficient data for assessment and plants that failed compliance three successive years are also highlighted in the text.

Three appendixes accompany this report. Appendix A lists all the non-complying plants and remedial actions. Appendix B provides a plant by plant summary of monthly averages for flows, concentrations and loadings of the parameters assessed. Appendix C provides a monthly summary of duration, volume and number of instances of raw sewage and secondary bypass data at 62 STP's. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

2.0 SIGNIFICANCE OF BOD, SS AND TP

BOD, SS and TP have traditionally been used by pollution control engineers as indicators of plant performance and effluent quality. These parameters are used by the Ministry to assess STP compliance.

The strength of wastewater is often measured by the 5 day Biochemical Oxygen Demand (BOD5) test. This is the amount of oxygen required by microorganisms to reduce the organic content in sewage to carbon dioxide, measured over a 5 day period. Effluent with high BOD concentrations may cause oxygen depletion in receiving waters.

Removal of suspended solids in sewage effluent is important since excessive amounts of solids discharged to a water source can cause aesthetic problems and kill fish by clogging respiratory passages (gills).

TP has been identified as a major factor in the eutrophication of receiving waters. Excessive amounts of phosphorus, cause rapid growth of algae and weeds. When algae and weeds die they decompose and use up dissolved oxygen. Lack of dissolved oxygen can kill aquatic organisms.

3.0 MOE COMPLIANCE AND NON-COMPLIANCE ASSESSMENT CRITERIA

Discharge of polluting material to any water course is an offence under the Ontario Water Resources Act. In this report, BOD and SS are assessed on an annual average, based on the general operating requirements of Policy 08-01 " Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters ".

Prior to 1985, TP was also assessed on an annual average basis as stipulated in Policy 08-04 " Provision and Operation of Phosphorus Removal Facilities at Institutional and Private Treatment Works ". However, in 1983, the United States and Canada agreed to tighten the control of TP discharged to the Great Lakes Basins. Currently, TP is assessed on a monthly average basis as specified in the Canada - US Agreement on Great Lakes Water Quality (October 1983). Policy 08-04 is currently under revision to reflect this more stringent requirement.

Table 1 summarizes the effluent requirements for various types of STP's.

TABLE 1
MINISTRY GENERAL EFFLUENT REQUIREMENTS
(Based on Policy 08-01
and Canada-US Agreement, 1983)

Type of Treatment	PARAMETER		
	BOD (Annual Average Basis)	Suspended Solids (Annual Average Basis)	Total Phosphorus (Monthly Average Basis)
PRIMARY:			
Without TP Removal	30 % removal	50 % removal	n/a
With TP Removal	50 % removal	70 (% removal	1.0 mg/l
SECONDARY:			
Without TP Removal	25 mg/l	25 mg/l	n/a
With TP Removal	25 mg/l	25 mg/l	1.0 mg/l
LAGOONS:			
Without TP Removal	30 mg/l	40 mg/l	n/a
Continuous TP Removal	30 mg/l	40 mg/l	1.0 mg/l
Batch TP removal	25 mg/l	25 mg/l	1.0 mg/l

n/a - not applicable

4.0 SAMPLING AND REPORTING REQUIREMENTS

Under the requirements outlined in Policy 08-06 " Policy to Govern Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) " STP's are required to provide a Ministry laboratory a minimum of one sample per month of the influent and effluent streams for analysis. Many facilities supplement this minimum requirement by doing additional analyses at their own laboratories.

Plant operators report monthly average STP flow, influent and effluent concentrations for BOD, TP and SS to the Ministry. Data is checked for accuracy at the Regional Office and then forwarded to head office for central computer processing.

In addition to reporting effluent quality, STP's also report the following information:

- Municipality
- Plant name
- Treatment type
- Region and District
- Operating authority
- Watercourse, Major Basin and Minor Basin
- IJC Designation
- Design Capacity
- Population Served

This information is available in Appendix B. The Appendix is arranged by Region (Southwest, West Central, Central, Southeast, Northeast and Northwest) and by municipality. Compliance status and remedial measures are also indicated. Regional boundaries and District Offices are shown at the beginning of each section. A summary of facilities by treatment type, operating authority and estimated hydraulic loading design capacity is also available at the beginning of each section.

5.0 AUDIT OF STP OPERATIONS

Inspections are carried out at municipally operated STP's by the Regional Operations Division of the MOE. During site visits, MOE staff visually inspect the STP facility and discuss operational procedures with the operating authority. The operating authority is formally made aware of any deficiencies by way of inspection reports. If warranted, follow up inspections are scheduled until the identified problems are corrected. The responsibility for implementing remedial programs is that of the operating authority. Financial commitment by the municipality is often a major factor affecting the time required to implement remedial programs and meet effluent requirements.

At Ministry operated facilities assessment is continually being carried out by regional staff responsible for these facilities. Daily operations are controlled by on-site staff employed by the Ministry. Major capital improvements must be approved by municipal authorities. Remedial programs may be prolonged due to funding problems.

6.0 1987 COMPLIANCE AND NON-COMPLIANCE STATUS

6.1 BACKGROUND INFORMATION OF SEWAGE TREATMENT PLANTS

At the end of 1987, sanitary sewage from over 7 million people (81 % of Ontario's population) were collected and treated by 412 STP's in Ontario. NOTE: The total number of STP's is an actual count of effluent discharge pipes. Some plants may contain more than one discharge pipe.

Sanitary sewage from the remaining population, located in rural areas, are for the most part treated by private systems (septic tanks/tile field systems) serving individual residences.

Ten plants started operation in 1987. They were:

1.	Cookstown	Central
2.	Fox Street	Central
3.	Innisfil (Alcona)	Central
4.	Chute A Blondeau	Southeast
5.	Embrun	Southeast
6.	Williamsburg P.V. Lagoon	Southeast
7.	Cecile Park (Hearst)	Northeast
8.	Dubreuilville	Northeast
9.	Hallebourg	Northeast
10.	Jogues	Northeast

Two plants, Swastika (NE) and Manitouwadge (NW) changed from a communal septic tank in 1986, to a conventional activated sludge plant and an aerated continuous discharge lagoon, respectively, in 1987. Soper Creek 1 and 2 were phased out.

Table 2 summarizes STP's by treatment type, operating agency and hydraulic loading design capacity. Similar summaries for each region can be found in Appendix B at the beginning of each regional section.

STP's are operated by the MOE or Municipality. Larger facilities are usually owned and operated by the Municipality(ies) they serve, whereas, the Ministry may operate facilities for smaller municipalities.

Two hundred thirty-eight STP's were operated by the Ministry and 174 were operated by the Municipality. Although the Ministry operates a greater number of STP's than the Municipalities, it is apparent from Table 2 that Municipalities are responsible for over 3 times the hydraulic loading to surface waters than the Ministry. Conventional Activated Sludge plants contribute 70% of the flow.

TABLE 2

PROVINCIAL SEWAGE SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	1	6	7	.272	1.664	1.936 (.426)
Primary	9	22	31	162.655	967.525	1,130.181 (248.610)
Conventional Activated Sludge	32	56	89	979.181	3,238.734	4,217.915 (927.830)
Modified Activated Sludge	1	0	1	12.274	.000	12.274 (2.700)
Contact Stabilization	7	6	13	24.580	35.867	60.448 (13.297)
Extended Aeration	65	30	95	128.633	103.917	232.550 (51.155)
Trickling Filter	0	1	1	.000	.454	.454 (.100)
High Rate	3	2	5	18.684	77.282	95.966 (21.110)
Oxidation Ditch	9	2	11	11.046	7.814	18.861 (4.149)
Aerated Lagoon	3	3	6	6.664	9.878	16.542 (3.639)
Conventional Lagoon Continuous	6	11	17	7.155	32.676	39.832 (8.762)
Conventional Lagoon Seasonal	73	27	100	67.279	49.114	116.393 (25.606)
Conventional Lagoon Annual	9	0	9	4.450	.000	4.450 (.979)
Lagoon and Spray	3	1	4	1.518	.363	1.882 (.414)
Aerated Cell Plus Lagoon	13	6	18	49.349	10.446	59.795 (13.153)
Exfiltration Lagoon	4	1	5	4.409	1.545	5.955 (1.310)
TOTALS	238	174	412	1478.155 (325.155)	4537.629 (998.159)	6015.784 (1323.314)

10^3m/d:	THOUSANDS OF CUBIC METRES PER DAY	CONVERSION FACTOR
mIgd:	MILLION IMPERIAL GALLONS PER DAY	$10^3 m^3$/d = .220 MIGD

01307-PDR.43

STP's in Ontario have a total hydraulic loading design capacity of 6,015 x 1000 m^3/day ranging from 818 x 1000 m^3 at Toronto Main to 0.045 x 1000 m^3 at Carleton Lodge in Nepean.

Table 3 summarizes annual average daily loading of BOD, SS and TP to Minor Basins. Values are based on the actual data received from the STP's. In 1987, a total of 84 tonnes/day of BOD, 89 tonnes/day of SS and 5 tonnes/day of TP were discharged to receiving waters by STP's. Of the Minor Basins, Lake Ontario received the greatest loading of all 3 parameters in 1987.

6.2 PLANTS NOT ASSESSED FOR COMPLIANCE

Of the 412 STP's in Ontario, 41 have not been assessed for compliance because they did not provide sufficient data for assessment. Sufficient data is defined as 9 or more monthly observations for continuous discharge facilities in 1987 and 1 sample/month of discharge for seasonal and annual lagoons. The 41 plants can be divided into the following categories:

1. No discharge to surface water

   Twenty-two of the 41 plants have no discharge to surface waters. Many of these are exfiltration facilities or lagoons that did not require discharge in 1987. Table 4 summarizes these plants.

2. Insufficient data with reason

   Eleven STP's that were not assessed have a justifiable reason for insufficient data. Their plants were being upgraded or operations were being started in 1987. These plants are included in Table 5.

3. Insufficient data with no reason

   The remaining 8 facilities did not provide satisfactory explanation to the Ministry why incomplete data for assessment was reported. These plants are listed in Table 6.

   Morrisburg in Southeast Region is the only plant that has provided insufficient data for assessment two years in a row.

TABLE 3

LOADING OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLIDS, AND TOTAL PHOSPHORUS TO THE MINOR BASINS

MINOR BASIN	NUMBER OF FACILITIES	AVERAGE DAILY FLOW 1000 m^3/d	BOD LOADING tonnes/d	BOD AVERAGE mg/l	SS LOADING tonnes/d	SS AVERAGE mg/l	TP LOADING tonnes/d	TP AVERAGE mg/l
LAKE ONTARIO	77	2906.983	40.702	14.001	47.434	16.317	2.172	0.747
LAKE HURON	112	363.561	5.478	15.068	4.252	11.695	0.451	1.240
LAKE ERIE	102	857.334	11.013	12.846	11.994	13.990	0.604	0.705
OTTAWA RIVER	50	526.458	16.743	31.804	14.159	26.896	1.005	1.908
LAKE SUPERIOR	12	88.842	4.853	54.627	5.840	65.736	0.107	1.202
JAMES BAY	33	51.105	0.694	13.582	1.307	25.579	0.094	1.838
LAKE WINNEPEG EAST	13	32.861	0.553	16.842	0.838	25.488	0.050	1.507
ST. LAWRENCE RIVER	13	150.640	3.603	23.918	3.544	23.526	0.147	0.974
Total	412	4977.784	83.640		89.368		4.629	

TABLE 4
SEWAGE TREATMENT PLANTS
WITH NO DISCHARGE TO SURFACE WATERS IN 1987

SOUTHWEST

* Dover (Mitchell's Bay Lagoon)	No Discharge in 1987
* Markdale Lagoon	Exfiltration

WEST CENTRAL

Brantford (Airport STP)	Discharge to a Tile Field
* Nanticoke (Townsend Lagoon)	No Discharge 1987
Port Colbourne (West Plant)	Standby Plant - No Discharge 1987

CENTRAL

Brock (Beaverton River 1 Lagoon)	Exfiltration
* Beeton Lagoon	Exfiltration
* Omemee Lagoon	Spray Irrigation
* Wasaga Beach STP	Exfiltration

SOUTHEAST

Williamsburg	No Discharge 1987

NORTHEAST

* Casimir (St. Charles Lagoon)	No Discharge 1987
* Cosby M.M. (Noelville Lagoon)	No Discharge 1987
* Dubreuilville Lagoon	In operation 1987
* Mattawa Lagoon	Exfiltration
* Ratter & Dunnet (Warren Lagoon)	No Discharge 1987
* Temagami Lagoon	Exfiltrating in 1987
* Webbwood Lagoon	No Discharge 1987
* White River Lagoon	No Discharge 1987
Val Rita Harty (Harty Lagoon)	No Discharge 1987

NORTHWEST

* Beardmore Lagoon	Exfiltration
Caramat STP	Exfiltration
Terrace Bay Lagoon	Exfiltration

* Operated by the Ministry of the Environment

TABLE 5
SEWAGE TREATMENT PLANTS WITH REASON FOR INSUFFICIENT DATA TO ASSESS COMPLIANCE IN 1987

CENTRAL

* Alcona (Innisfil STP)	New operation in 1987
Bracebridge	Plant Not in Use - Upgrading
Cookstown STP	New operation in 1987

SOUTHEAST

Russell(Embrun P.V. Lagoon)	New operation in 1987

NORTHEAST

Black River Matheson (Holtyre-Ross Mine STP)	Under construction
Black River Matheson (Holtyre STP)	Under construction
Hallebourg Lagoon	New operation in 1987
Hearst (Cecile Trailer Park Lagoon)	New operation in 1987
Jogues Lagoon	New operation in 1987
Larder Lake WPCP	No access to effluent
* Michipicoten (Wawa)	Under construction

* Operated by the Ministry of the Environment

TABLE 6
SEWAGE TREATMENT PLANTS WITH NO REASON FOR INSUFFICIENT DATA TO ASSESS COMPLIANCE FOR 1987

SOUTHWEST

* Kincardine Lagoon
  Tilbury Lagoon

CENTRAL

East Gwillimbury (Mount Albert STP)

SOUTHEAST

! Morrisburg STP
  Stirling Lagoon

NORTHEAST

* Fauquier Lagoon
* Mattice Lagoon
* Opasatika Lagoon

* Operated by the Ministry of the Environment

! Repeat Offenders

6.3 COMPLIANCE

A total of 371 plants were assessed for compliance. Table 7 shows that 233 plants (63 % of the total assessed) met all of the Ministry effluent guideline requirements. The percentage of plants complying this year has improved slightly over last year. In 1986, 58 % or 211 out of 362 plants assessed were in compliance.

This year, 95 % of the STP's assessed met the annual requirement for BOD and 86 % of the STP's met the SS annual guideline. 73 % met the monthly guideline for TP, although not all STP's have a compliance criteria for TP removal. If TP were assessed on an annual average basis, as in past years, 92 % of the STP's would have been in compliance.

6.4 NON-COMPLIANCE

One hundred thirty-eight (37 %) of the 371 plants assessed are out of compliance with the Ministry's effluent water quality guidelines. Eighty-one of these are MOE plants. Table 8 summarizes the number of STP's that are not in compliance. Further analysis indicates the following:

1. Seventeen (5 %) STP's are failing BOD criteria.

2. A total of 53 (14 %) STP's are out of compliance for SS. Thirty-three (9 %) of the plants are lagoons. Frequently, lagoons are high in SS due to algal blooms and scouring of bottom sediment from wind action. Controlling algae in lagoon effluent is a universal problem. In consideration of this difficulty, some American States, like Minnesota, have revised their BOD and SS effluent limitations from 25 to 40 mg/l and 30 to 45 mg/l, respectively.

3. Eighty-seven continuous discharge STP's and 13 seasonal or annual lagoons (27 % of the total STP's assessed) are out of compliance for TP on a monthly basis. Of the continuous discharge plants, 33 are non complying only one month, 28 are non-complying 2 to 3 months and a total of 26 are non-complying more than 3 months. This implies that few plants are chronic offenders with respect to TP. Only 28 (8 %) of the 100 facilities have TP concentrations greater than 1 mg/l on an annual basis; which was the compliance standard used prior to 1985. Table 9 summarizes the number of continuous discharge plants non-complying with TP on a per month basis. Diagram 1 depicts this trend schematically.

TABLE 7
1987 COMPLIANCE SUMMARY FOR SEWAGE TREATMENT PLANTS

Region	Total Number of S.T.P.'s	Number of S.T.P.'s Assessed	Number of S.T.P.'s Meeting Criteria for			
			All Parameters	* BOD	* SS	+ TP
Southwest	104	100	53	97	78	69
West Central	56	53	29	51	47	34
Central	76	68	47	67	66	48
Southeast	67	63	36	57	47	44
Northeast	82	63	48	60	58	54
Northwest	27	24	20	22	22	22
Total (1987)	412	371	233 (63%)	354 (95%)	318 (86%)	271 (73%)
1986	407	362	211 (58%)	344 (95%)	315 (87%)	236 (65%)

The figures within the parentheses are the percentages of the parameter as compared to plants assessed.

* SS and BOD are assessed on an annual basis

+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 8
1987 NON-COMPLIANCE SUMMARY FOR SEWAGE TREATMENT PLANTS

Region	Total Number of S.T.P's	Number of S.T.P.'s Assessed	S.T.P.'s Not Meeting Criteria for			
			One or More Parameters	* BOD	* SS	+ TP
Southwest	104	100	47	3	22	31
West Central	56	53	24	2	6	19
Central	76	68	22	1	2	20
Southeast	67	63	25	5	15	18
Northeast	82	63	16	4	6	10
Northwest	27	24	4	2	2	2
Total (1987)	412	371	138 (37%)	17 (5%)	53 (14%)	100 (27%)
1986	407	362	151 (42%)	18 (5%)	47 (13%)	126 (35%)

The figures within the parentheses are the percentages of the parameter as compared to plants assessed.

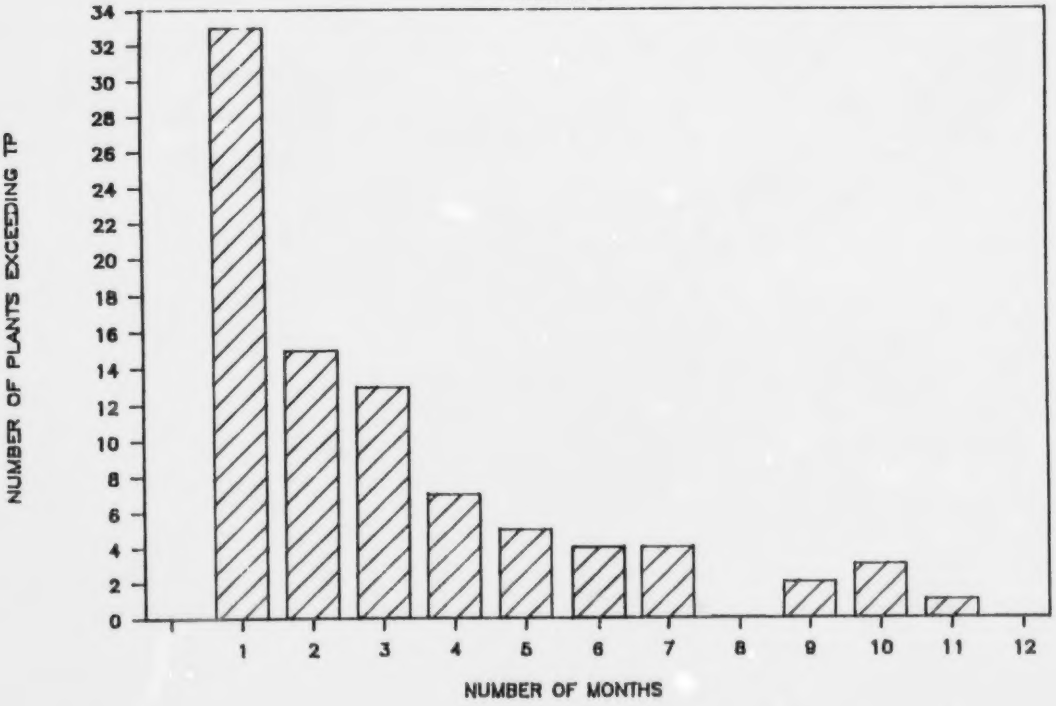
* SS and BOD are assessed on an annual basis
+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 9
TOTAL PHOSPHORUS (MONTHLY) NON-COMPLIANCE SUMMARY FOR CONTINUOUS DISCHARGE PLANTS

	NUMBER OF MONTHS NON-COMPLYING											
REGION	1	2	3	4	5	6	7	8	9	10	11	12
SOUTHWEST	11	4	3		2	1	1			1		
WEST CENTRAL	9	3	2	3	1						1	
CENTRAL	9	4	3	2			1					
SOUTHEAST	3	1	3	2	2	2	1		2	1		
NORTHEAST	1	2	1			1	1			1		
NORTHWEST		1	1									
TOTAL	33	15	13	7	5	4	4	0	2	3	1	0

STP'S IN EXCEEDENCE OF MONTHLY TP

DIAGRAM 1



6.5 PLANTS NON-COMPLYING TWO AND THREE SUCCESSIVE YEARS

While non-compliance in any one year is undesirable, failure in two and three successive years indicates that remedial action plans must be reassessed or implemented as soon as possible. Appendix A reveals that 48 plants failed to meet the Ministry guidelines for 2 consecutive years while 46 failed three years in a row. Table 10a-e lists those plants failing three consecutive years. MOE is currently investigating a strategy to prioritize STP's according to their degree of non-compliance.

6.6 REMEDIAL MEASURES

All STP's that are not performing efficiently must develop a remedial action plan to either upgrade their treatment processes and/or improve their operating procedures. Often remedial programs are prolonged because of funding problems.

Fifty-seven STP's out of compliance in 1986 (36 of which reported remedial programs) improved their operations or upgraded their facilities sufficiently to meet compliance in 1987. Unfortunately, 44 different plants failed compliance in 1987. All STP's should strive to consistently meet effluent guideline limits.

Currently, 116 (84 %) of the 138 plants out of compliance have some form of remedial action. This is a great improvement over last year in which only 95 (63 %) out of 151 non-complying plants had remedial action. Of the 22 plants with no remedial action, 8 are operated by MOE. Appendix A includes a summary of plants which have remedial action in 1987. Appendix B elaborates on these remedial actions on a plant specific basis.

This year, Central Region has the least number of remedial programs : only 13 plants have remedial action out of 21 non-complying plants. Southwest has the most remedial programs : 44 plants with remedial action out of 47 non-complying plants.

All plants that failed compliance for three successive years have remedial programs.

TABLE 10A

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: SOUTHWEST

FACILITY	1987			1986			1985			REMEDIAL ACTION	ANTICIPATED COMPLIANCE
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP		
AMHERSTBURG			*		*	*	*	*	*	YES	87/09/30
+ AYLMER			*			*			*	YES	88/04/30
+ BLANDFORD-BLENHEIM (PLATTS.)		*			*	*		*		YES	
+ BLENHEIM		*			*	*		*		YES	
CLINTON			*			*			*	YES	1990
+ DUTTON		*	*		*	*		*		YES	
+ EAST ZORRA-TAVISTOCK	*	*	*			*	*	*	*	YES	88/04/30
+ FOREST		*			*		*	*		YES	
KINGSVILLE			*			*		*		YES	88/06/30
+ POINT EDWARD			*	*		*			*	YES	
+ RIDGETOWN	*	*	*		*	*		*		YES	88/01/31
+ RODNEY	*	*	*	*	*	*	*	*	*	YES	
+ SOMBRA (PORT LAMBTON)		*			*	*		*		YES	
+ STEPHEN (GRAND BEND)		*			*			*		YES	
STRATHROY			*			*			*	YES	1988
+ THEDFORD		*			*			*		YES	
+ WEST LORNE		*			*	*		*		YES	90/01/31

+ Operated by the Ministry of the Environment

TABLE 10B

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: WEST CENTRAL

FACILITY	1987			1986			1985			REMEDIAL ACTION	ANTICIPATED COMPLIANCE
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP		
+ CAMBRIDGE (HESPELER)			*	*	*	*	*	*	*	YES	90/09/30
FORT ERIE (CRYSTAL BEACH)		*	*	*	*	*		*	*	YES	
+ NANTICOKE (JARVIS)		*			*		*	*		YES	1989
+ PALMERSTON	*	*		*	*		*	*		YES	89/01/31
+ WOOLWICH (ELMIRA)			*			*	*	*	*	YES	1989

+ Operated by the Ministry of the Environment

TABLE 10C

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: CENTRAL

FACILITY	1987			1986			1985			REMEDIAL ACTION	ANTICIPATED COMPLIANCE
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP		
BRIGHTON			*			*			*	YES	
COBOURG (NO 1)			*			*			*	YES	89/01/01
COBOURG (NO 2)			*			*			*	YES	
COLLINGWOOD			*			*			*	YES	
METRO TORONTO (HUMBER)			*			*			*	YES	
STAYNER	*	*	*	*	*	*	*	*		YES	

+ Operated by the Ministry of the Environment

TABLE 10D

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: SOUTHEAST

FACILITY	1987			1986			1985			REMEDIAL ACTION	ANTICIPATED COMPLIANCE
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP		
ARNPRIOR	*	*	*	*	*	*	*	*	*	YES	92/01/31
+ CARLETON PLACE		*	*		*	*		*	*	YES	
+ CORNWALL	*		*	*		*	*			YES	
+ ERNESTOWN (AMHERSTVIEW)		*			*			*		YES	
GLOUCESTER (GREEN CREEK)		*	*		*	*		*	*	YES	90/12/31
KEMPTVILLE		*	*			*			*	YES	
+ MERRICKVILLE		*	*		*	*			*	YES	89/12/31
NAPANEE		*	*		*	*			*	YES	88/12/31
+ PETAWAWA			*	*	*	*	*	*	*	YES	
RENFREW			*			*			*	YES	
SMITHS FALLS		*	*		*	*	*	*	*	YES	

+ Operated by the Ministry of the Environment

TABLE 10E

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: NORTHEAST

FACILITY	1987			1986			1985			REMEDIAL ACTION	ANTICIPATED COMPLIANCE
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP		
COCHRANE	*	*			*			*		YES	90/12/31
+ GORE BAY		*			*			*		YES	
KAPUSKASING (BRUNETVILLE)		*	*		*		*	*		YES	88/11/30
+ KIRKLAND LAKE			*			*			*	YES	
NICKEL CENTRE (FALCONBRIDGE)	*	*		*	*		*	*		YES	89/12/31
+ NORTH BAY			*			*		*	*	YES	
TIMMINS (BOB'S LAKE)	*			*	*			*		YES	

+ Operated by the Ministry of the Environment

6.7 HISTORICAL REVIEW

Effluent requirements identified in Policy 08-01 were implemented in early 1983. For comparative purposes, the same requirements were applied to compare the STP compliance status from 1981 to 1987.

Table 11 compares non-compliance facilities on AN ANNUAL AVERAGE BASIS from 1981 to 1987. 1985, 1986 and 1987 phosphorus assessment was done on an **ANNUAL AVERAGE BASIS** for **COMPARATIVE PURPOSES** only!

When facilities are assessed on an annual average basis, in Table 11, the number of plants exceeding effluent criteria does not change significantly from year to year. A direct comparison of compliance status is difficult, since the criteria for assessing insufficient data has changed over the years. Also, in 1987, the plants with no discharge to surface water were not included in the number of plants assessed. The data presented in the 1986 report was adjusted to enable a direct comparison with 1987 data. Different assessment criteria can bias compliance results.

The TP compliance criteria was changed from an annual to a monthly basis in 1983. Monthly TP has been reported since 1985. Table 12 compares the total facilities exceeding monthly TP requirements from 1985 to 1987. An improvement in compliance with TP has been seen over the past three years eg. 53 % of the plants requiring phosphorus removal were out of compliance in 1985 but only 38 % were out of compliance in 1987.

TABLE 11
ANNUAL COMPLIANCE SUMMARY FOR SEWAGE TREATMENT PLANTS (1981-1987)
(All Parameters)

Year	Number of Facilities	STP's with Insufficient Data	STP's Assessed	STP's Exceeding Criteria
1981	389	NR	< 389	94
1982	392	NR	< 392	107
1983	391	NR	< 391	100
1984	400	14 *	386	89
1985	403	20 **	383	99
1986	407	17 ***	362	66
1987	412	8 ***	371	73

< - less than
NR - Not Recorded
* - Minimum of 1 month of data reported
** - Minimum of 6 months of data reported
*** - Minimum of 9 months of data reported

TABLE 12
MONTHLY COMPLIANCE SUMMARY FOR SEWAGE TREATMENT PLANTS
(Total Phosphorus)

Year	Total Number of Facilities with Phosphorus Removal	Number of Facilities Exceeding Monthly Requirements
1985	250	132
1986	258	126
1987	262	100

7.0 BYPASSES

Bypass is the discharge of raw sewage or partially treated sewage to a natural waterway by a STP or collection system. Many secondary plants are designed to provide partial treatment at primary clarifiers during high flows. This type of bypass is referred to as secondary bypass.

Bypasses may occur for a number of reasons such as:

1. An increase in hydraulic loading due to infiltration or runoff from a storm event or spring thaw;
2. Operational problems;
3. STP is under sized.

Often bypasses are necessary during storm events or spring thaw to prevent solids from being washed out from the biological treatment process in a secondary plant or to prevent flooding of the STP's and surrounding areas eg. residential basements. Other times, bypasses can be prevented by expanding the treatment plant or properly maintaining process equipment.

In 1987, the Ministry requested regional staff to report the volume, duration and number of instances of bypasses. Appendix C summarizes the monthly bypass data for individual STP's.

Fourteen plants reported no bypass occurrences in 1987. Sixty-two plants, or 17% of the total number of plants, reported one or more bypass(es). The actual number of STP's which have bypassed in 1987 is unknown.

A number of deficiencies in the database were further identified as follows:

1. There are many gaps in the database. Only 4 plants submitted the complete set of data for volume, duration and number of instances for secondary bypass and 10 plants for raw sewage bypass.
2. Most STP's do not have flow monitoring devices for bypasses , thus resulting in poorly estimated volume.
3. Frequently, there are no devices to record the occurrence of a bypass. Bypass occurrences in the middle of the

night will go unnoticed. As a result, the number of instances and duration of bypasses can be higher than the data reported.

4. The definition of bypass is not well defined. Some STP's report bypasses at pumping stations as well as within the plant while others only report bypasses that occur within the plant.

Keeping these deficiencies in mind, Table 13 which summarizes the total volume, duration, number of instances and ratio of volume of bypass to treated effluent for raw sewage bypass and secondary bypass should be treated as cursory information only.

TABLE 13

SUMMARY OF PLANT & SECONDARY BYPASSES

	PLANT BYPASS				SECONDARY BYPASS			
	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	*RATIO (%)	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	*RATIO (%)
Total	4606.370	9800.0	413	0.47	4791.170	1781.2	274	0.49
Maximum	2160.500	7896.5	246	18.06	1228.620	999.0	136	16.49
Minimum	0.010	0.5	1	0.00	0.300	0.2	2	0.02

* Ratio(%) is the Bypass Effluent over Treated Effluent (Expressed in Percent)

Table 13 shows that the volume of secondary bypass was greater than raw sewage bypass by 2 %. The longest duration of raw sewage bypass was from Carleton Place but volume was not reported. It appears that this plant bypassed every day, all year long. Windsor Little River discharged the greatest volume (4606 1000 m^3) of raw sewage bypass as well as the highest ratio of bypass to annual effluent flow (18 %). However, Windsor did not report duration or number of instances. Campbellford bypassed raw sewage 246 times but this constituted only 4 % of its total treated effluent.

For secondary bypass, Chatham discharged the greatest volume making up 13 % of its total treated effluent. Belleville had the greatest number of times and duration but bypassed 9 % of its total treated volume. Sidney (Batawa) discharged the greatest ratio of secondary bypass to treated effluent, that being 17 %.

Since this is the first year that bypasses are reported, it is expected that the data will be more complete in 1988.

In addition, more stringent monitoring and reporting of bypass information will be required under the MISA (Municipal Industrial Strategy for Abatement) program. The additional information will be used by the Ministry to develop effective bypass reduction measures.

8.0 FUTURE ACTIONS

MISA was a program introduced by the MOE in 1986. The goal of MISA is to virtually eliminate toxins from natural waterways. This will be achieved by developing effluent limits based on the Best Available Technology Economically Achievable (BATEA). All liquid effluent, including bypasses, and sludge from STP's will be addressed under this program.

Regulations are being developed to clearly inform municipalities of the requirements for effluent quality, sampling and analysis.

The MISA Regulations are being developed in three phases. The premonitoring phase of the MISA Municipal program is underway. An intensive sampling study of 40STP's was carried out in 1987. Influent, effluent and sludge were analyzed for over 180 contaminants. A final report is expected in the fall of 1988. Data from the premonitoring phase will be used to develop monitoring regulations for all STP's in Ontario.

The development of the monitoring regulation began in 1988. All STP's will be required to carry out frequent monitoring of an extensive list of contaminants. The list will include conventional parameters, such as BOD, SS and TP, as well as toxic metals and organics. Methods for sampling and analyses will also be clearly specified in the regulation and audited. The monitoring data will then be used to develop the BATEA effluent criteria.

An Effluent Limits Compliance Regulation will be developed in the last phase. It will stipulate the concentrations and/or loadings STP's must meet before they discharge. The BATEA effluent criteria will serve as the minimum requirements for all STP's in Ontario. For those STP's that discharge into sensitive watercourses, more stringent site specific limits will be developed.

In addition to tightening the control of sewage effluent quality, the Ministry is developing a sewer-use program. This program will regulate industrial discharges to municipal sewers, thereby enhancing the quality of raw sewage, effluent and sludge at STP's.

9.0 ENQUIRIES

Enquiries about specific STP's may be directed to the Ministry's Regional Offices or District Offices. These addresses and phone numbers are available in Appendix B at the beginning of each Regional section.

Copies of this report are available from:

Communications Branch,
Ministry of the Environment,
135 St. Clair Ave. W., 6th Floor,
Toronto, Ontario
M4V 1P5
323-4321

Enquiries concerning this report may be directed to:

Ministry of the Environment,
MISA Municipal Office,
Water Resources Branch,
1 St. Clair Ave. W., 7th Floor,
Toronto, Ontario.
M4V 1K6
323-4995
323-4981

APPENDIX A

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS
AND REMEDIAL MEASURES
FOR 1987

ABBREVIATIONS IN APPENDIX A

CST .... Communal Septic Tank

Lc .... Continuous Lagoon

Ls .... Seasonal Lagoon

P .... Primary Treatment Plant

PR .... Phosphorus Removal

S .... Secondary Treatment Plant

BOD & SS are assessed on an annual average

The value for TP is the annual average.
The value in brackets represents the number of months that the plant was out of compliance for TP.

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : SOUTHWEST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
AMHERSTBURG	P,PR			0.91 (3)	*	*	YES	87 / 09 / 30
+AYLMER	Ls,PR			1.55 (5)	*	*	YES	88 / 04 / 30
+BELMONT	Ls,PR			0.88 (1)	*		YES	
+BLANDFORD-BLENHEIM (PLATTSVILLE)	Ls,PR		31.40		*	*	YES	
+BLENHEIM	Ls,PR		48.30		*	*	YES	
CHATHAM	S,PR		26.10	0.95 (5)		*	YES	
CHESLEY	Lc,PR			0.86 (2)			NO	
CLINTON	S,PR			0.70 (2)	*	*	YES	1990
+DRESDEN	S,PR			0.46 (1)	*		YES	
+DUTTON	Ls,PR		48.70	3.42 (1)	*	*	YES	
+EAST WILLIAMS (AILSA CRAIG)	S,PR			0.74 (1)	*		YES	89 / 01 / 31
+EAST ZORRA (TAVISTOCK)	Ls,PR	30.80	51.30	1.31 (1)	*	*	YES	88 / 04 / 30
+ENNISKILLEN (OIL CITY)	Ls,PR		53.60			*	YES	
+FOREST	Ls		62.30		*	*	YES	
GODERICH	S,PR			0.88 (3)	*		NO	
+GOSFIELD NORTH (COTTAM)	Ls,PR		51.30				YES	
HANOVER	S,PR			0.78 (2)	*		YES	1988

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : SOUTHWEST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+HARROW	Ls,PR		32.10	0.87 (1)			YES	
+INGERSOLL (NEW)	S,PR			0.60 (2)	*		YES	89 / 01 / 31
KINGSVILLE	Ls,PR			1.24 (3)	*	*	YES	88 / 06 / 30
+LISTOWEL	Lc,PR			0.94 (1)	*		YES	
LONDON (GREENWAY)	S,PR			0.70 (1)			YES	
LONDON (OXFORD)	S,PR			0.66 (1)	*		YES	
+MAIDSTONE (BELLE RIVER - MAIDSTONE)	S,PR			0.68 (1)	*		YES	90 / 06 / 30
+MITCHELL	Ls,PR		89.80				YES	
+OIL SPRINGS	Lc,PR		75.20				YES	
+OWEN SOUND	P,PR			0.69 (1)	*		YES	88 / 01 / 31
+PAISLEY	S,PR			1.75 (7)			YES	
+PLYMPTON (WYOMING)	S,PR			0.45 (1)			YES	88 / 09 / 30
+POINT EDWARD	P,PR			1.87 (10)	*	*	YES	
+PORT BURWELL	S,PR			0.50 (1)	*		YES	88 / 01 / 31
+RALEIGH TILBURY E (MERLIN)	Lc,PR		92.00		*		YES	
+RIDGETOWN	Ls,PR	32.00	51.80	1.53 (2)	*	*	YES	88 / 01 / 31
+RODNEY	Ls,PR	27.30	162.90	1.73 (1)	*	*	YES	

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : SOUTHWEST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+SOMBRA (PORT LAMBTON)	Ls,PR		113.50		*	*	YES	
+SOMBRA (SOMBRA)	Ls,PR		62.60				YES	
ST. EDMUNDS (TOBERMORY)	Lc		46.30				NO	
+STEPHEN (GRAND BEND)	Ls,PR		50.90		*	*	YES	
+STRATFORD	S,PR			0.34 (1)	*		YES	88 / 01 / 31
STRATHROY	Lc,PR			1.03 (6)	*	*	YES	1988
+THAMESVILLE	S,PR			0.49 (1)			YES	87 / 06 / 30
+THEDFORD	Lc		57.30		*	*	YES	
+TILBURY NORTH (STONEY POINT)	Ls,PR		47.20				YES	
+TILBURY WEST (COMBER)	Ls,PR		28.00		*		YES	
+TUCKERSMITH (VAN ASTRA)	S,PR			0.90 (3)	*		YES	88 / 01 / 31
WALKERTON	S,PR			1.53 (5)	*		YES	89 / 12 / 31
+WEST LORNE	Ls,PR		34.10		*	*	YES	90 / 01 / 31

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : WEST CENTRAL

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+BRANTFORD (BRANTFORD)	S,PR			0.95 (3)			NO	
+CAMBRIDGE (HESPELER)	S,PR			1.04 (2)	*	*	YES	90 / 09 / 30
DUNDAS	S,PR			0.45 (1)			YES	88 / 08 / 31
+FERGUS	S,PR		28.30				YES	91 / 09 / 30
FLAMBOROUGH (WATERDOWN)	S,PR			0.56 (1)	*		YES	88 / 01 / 31
FORT ERIE (ANGER AVE.)	P,PR			0.78 (1)	*		YES	
FORT ERIE (CRYSTAL BEACH)	S,PR		34.50	1.26 (5)	*	*	YES	
+HALDIMAND (CALEDONIA)	S,PR			0.76 (1)	*		YES	
+HALDIMAND (HAGERSVILLE)	S,PR			0.76 (4)			YES	
HAMILTON (WOODWARD AVE.)	S,PR	27.40		0.95 (4)		*	YES	89 / 01 / 01
+KITCHENER	S,PR			0.79 (1)			YES	
MOUNT FOREST	S,PR			1.48 (11)		*	NO	
+NANTICOKE (JARVIS)	Ls,PR		41.70		*	*	YES	1989
+NANTICOKE (PORT DOVER)	P,PR			0.70 (2)	*		YES	90 / 01 / 01
NIAGARA FALLS (STAMFORD)	P,PR			0.70 (1)	*		NO	
+NORFOLK (PORT ROWAN)	Ls,PR		28.20				YES	
+PALMERSTON	S	63.10	40.40		*	*	YES	89 / 01 / 31

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : WEST CENTRAL

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+WATERLOO	S,PR			0.81 (2)	*		YES	1989
WELLAND	S,PR			0.48 (1)			YES	
+WELLESLEY	S,PR			0.60 (1)	*		YES	
WEST LINCOLN (SMITHVILLE)	Ls		53.60				YES	
+WILMOT (BADEN)	S,PR			0.89 (3)	*		YES	88 / 03 / 31
+WOOLWICH (ELMIRA)	S,PR			0.86 (4)	*	*	YES	1989
+WOOLWICH (ST. JACOBS)	S,PR			0.71 (1)	*		YES	

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : CENTRAL

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+BOBCAYGEON	S,PR			0.43 (1)	*		YES	
BRIGHTON	Lc,PR			0.83 (1)	*	*	YES	
+CAMPBELLFORD	S,PR			0.77 (3)	*		YES	
COBOURG (NO 1)	S,PR			0.89 (4)	*	*	YES	89 / 01 / 01
COBOURG (NO 2)	S,PR			0.68 (1)	*	*	YES	
COLLINGWOOD	S,PR			0.83 (3)	*	*	YES	
+FENELON FALLS	S,PR			0.52 (1)	*		NO	
GEORGINA (SUTTON)	S,PR			0.37 (1)	*		NO	
HALTON HILLS (ACTON)	S,PR			0.56 (1)	*		NO	
+HASTINGS	S,PR			0.53 (2)			NO	
LINDSAY	Lc,PR			0.74 (1)			YES	88 / 06 / 30
METRO TORONTO (HUMBER)	S,PR			0.94 (4)	*	*	YES	88 / 08 / 01
MIDLAND	S,PR			0.62 (1)	*		NO	
+MISSISSAUGA (LAKEVIEW)	S,PR			0.74 (2)			YES	
MUSKOKA LAKES (BALA)	CST,PR			0.89 (2)		*	YES	90 / 12 / 31
NEWCASTLE (PORT DARLINGTON)	S,PR			0.89 (2)	*		NO	

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : CENTRAL

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
OAKVILLE (SOUTHWEST)	S,PR			0.72 (1)	*		NO	
PERCY	Ls		71.70				NO	
PETERBOROUGH	S,PR			1.04 (3)	*		YES	87 / 09 / 30
STAYNER	Ls,PR	53.70	26.00	1.30 (3)	*	*	YES	
WHITBY (CORBETT CREEK)	S,PR			1.58 (7)	*		YES	89 / 12 / 31

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : SOUTHEAST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+ALEXANDRIA	Lc,PR			0.60 (4)	*		YES	
ARNPRIOR	P,PR	47.10 (46%)	38.90 (45%)	1.15 (4)	*	*	YES	92 / 01 / 31
+BELLEVILLE	S,PR	25.80			*		YES	
BROCKVILLE	P,PR			2.08 (9)	*		YES	89 / 04 / 30
+CARLETON PLACE	S,PR		79.60	2.16 (6)	*	*	YES	
+CORNWALL (CORNWALL)	P,PR	38.50 (46%)		0.99 (5)	*	*	YES	
DELORO	CST		62.30 (32%)			*	YES	89 / 12 / 31
+EAST HAWKESBURY (CHUTE A BLONDEAU)	S		34.30				NO	
+ERNESTOWN (AMHERSTVIEW)	Lc		60.40		*	*	YES	
GLOUCESTER (GREEN CREEK)	P,PR		32.50 (63%)	2.21 (10)	*	*	YES	90 / 12 / 31
GOULBOURN (MUNSTER)	Ls		41.50				NO	
+HAWKESBURY	S,PR			0.55 (1)	*		NO	
IROQUOIS	P,PR	19.80 (48%)	69.80 (60%)	1.37 (7)		*	YES	
KEMPTVILLE	P,PR		24.70 (69%)	3.13 (9)	*	*	YES	
+L'ORIGNAL	S	26.50	32.50		*		YES	88 / 01 / 31
+MERRICKVILLE	S,PR		29.30	1.06 (5)	*	*	YES	89 / 12 / 31
NAPANEE	S,PR		28.90	1.43 (6)	*	*	YES	88 / 12 / 31

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : SOUTHEAST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
PERTH	Lc,PR			0.61 (1)	*		YES	88 / 01 / 31
+PETAWAWA	P,PR			1.22 (3)	*	*	YES	
PICTON	S,PR			0.72 (2)			YES	88 / 12 / 31
RENFREW	P,PR			0.98 (3)	*	*	YES	
+RUSSELL	Lc		58.00				YES	
+SIDNEY (BATAWA)	S,PR			0.85 (1)	*		NO	
SMITHS FALLS	P,PR		27.80 (62%)	0.93 (3)	*	*	YES	
+ST. ISIDORE DE PRESCOTT	Lc		41.00		*		YES	
+WESTPORT	Ls,PR			1.09 (1)		*	YES	88 / 12 / 31

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : NORTHEAST

MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+CALDWELL (VERNER)	Ls,PR			1.36 (3)		*	YES	
COCHRANE	S	41.70	190.40		*	*	YES	90/12/31
+GORE BAY	Ls		40.50		*	*	YES	
+HAILEYBURY (LAKE TEMISKAMING NEW)	S,PR			0.65 (2)	*		NO	
IROQUOIS FALLS (PORQUIS)	Ls	35.50	498.20				YES	88 / 12 / 31
KAPUSKASING (BRUNETVILLE)	Lc,PR		33.60	2.96 (10)	*	*	YES	88 / 11 / 30
+KIRKLAND LAKE	S,PR			0.63 (1)	*	*	YES	
+LATCHFORD	S		25.60				YES	
NEW LISKEARD (FALCONBRIDGE TOWNSITE)	L,PR			1.4 (6)			YES	87/07/31
NICKEL CENTRE (FALCONBRIDGE TOWNSITE)	S	29.40	31.20		*	*	YES	89 / 12 / 31
+NORTH BAY	S,PR			1.08 (7)	*	*	YES	
+NORTH HIMSWORTH (CALLANDER)	Ls,PR			0.91 (1)			YES	90 / 05 / 01
+SAULT STE. MARIE (WEST END)	S,PR			0.85 (2)	*		NO	
+STURGEON FALLS	S,PR			0.74 (3)			YES	
TIMMINS (BOB'S LAKE)	Lc	33.30			*	*	YES	
VAL RITA-HARTY (VAL-RITA)	Ls,PR			1.52 (1)			NO	

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1987

REGION : NORTHWEST

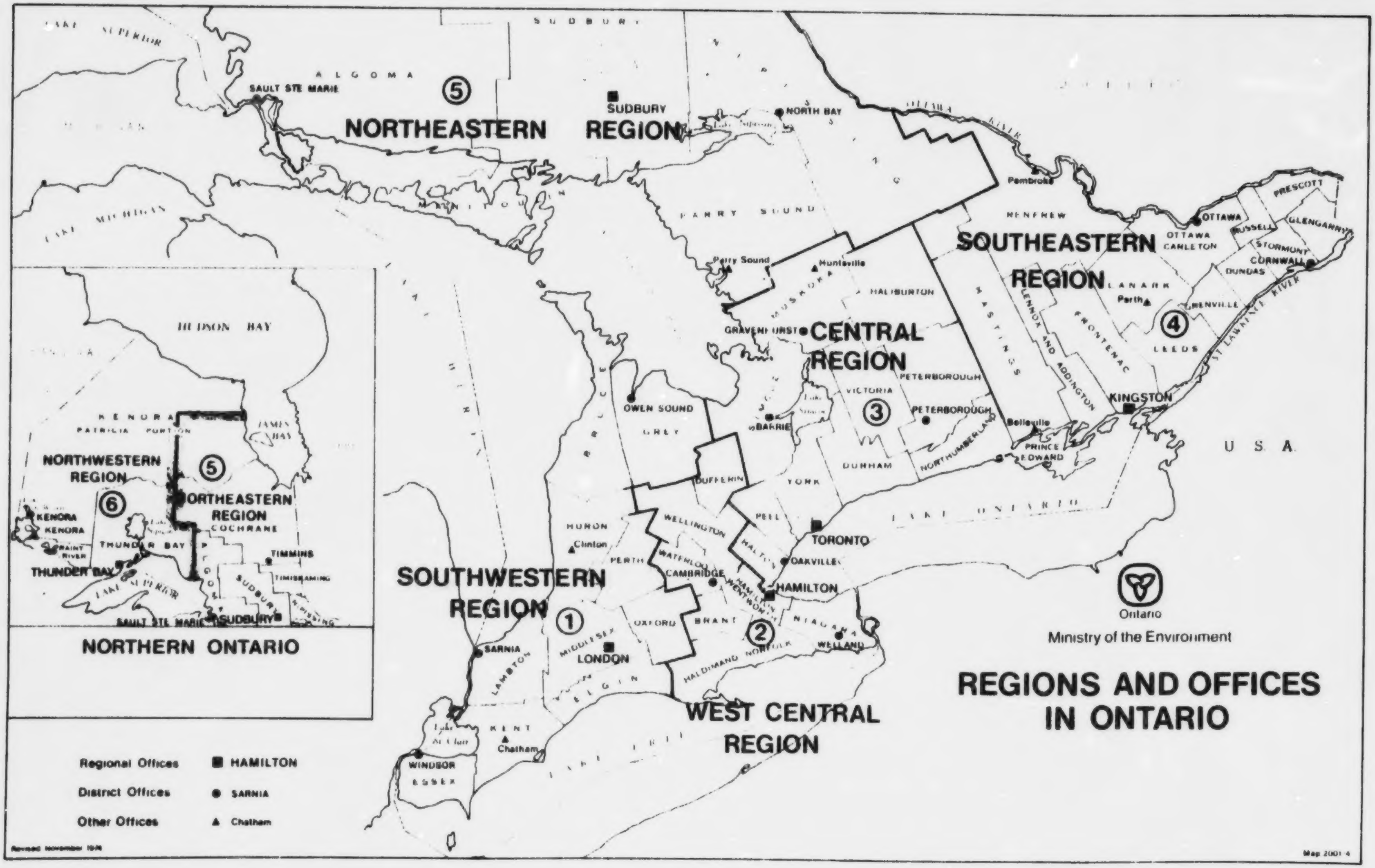
MUNICIPALITY PLANT	TREATMENT TYPE	1987 NON-COMPLIANCE PARAMETERS					REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
		BOD	SS	TP	1986	1985		
+ATIKOKAN	S,PR			0.81 (2)	*		YES	88 / 03 / 31
+FORT FRANCES	P	46.10 (28%)	83.30 (41%)		*		YES	1995
+SCHREIBER	S	28.30	33.30				YES	1990
THUNDER BAY	P,PR			1.00 (3)	*		NO	

+ = MOE OPERATED PLANT

* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

APPENDIX B

SEWAGE TREATMENT PLANTS
LISTINGS AND
OPERATING DATA
FOR 1987

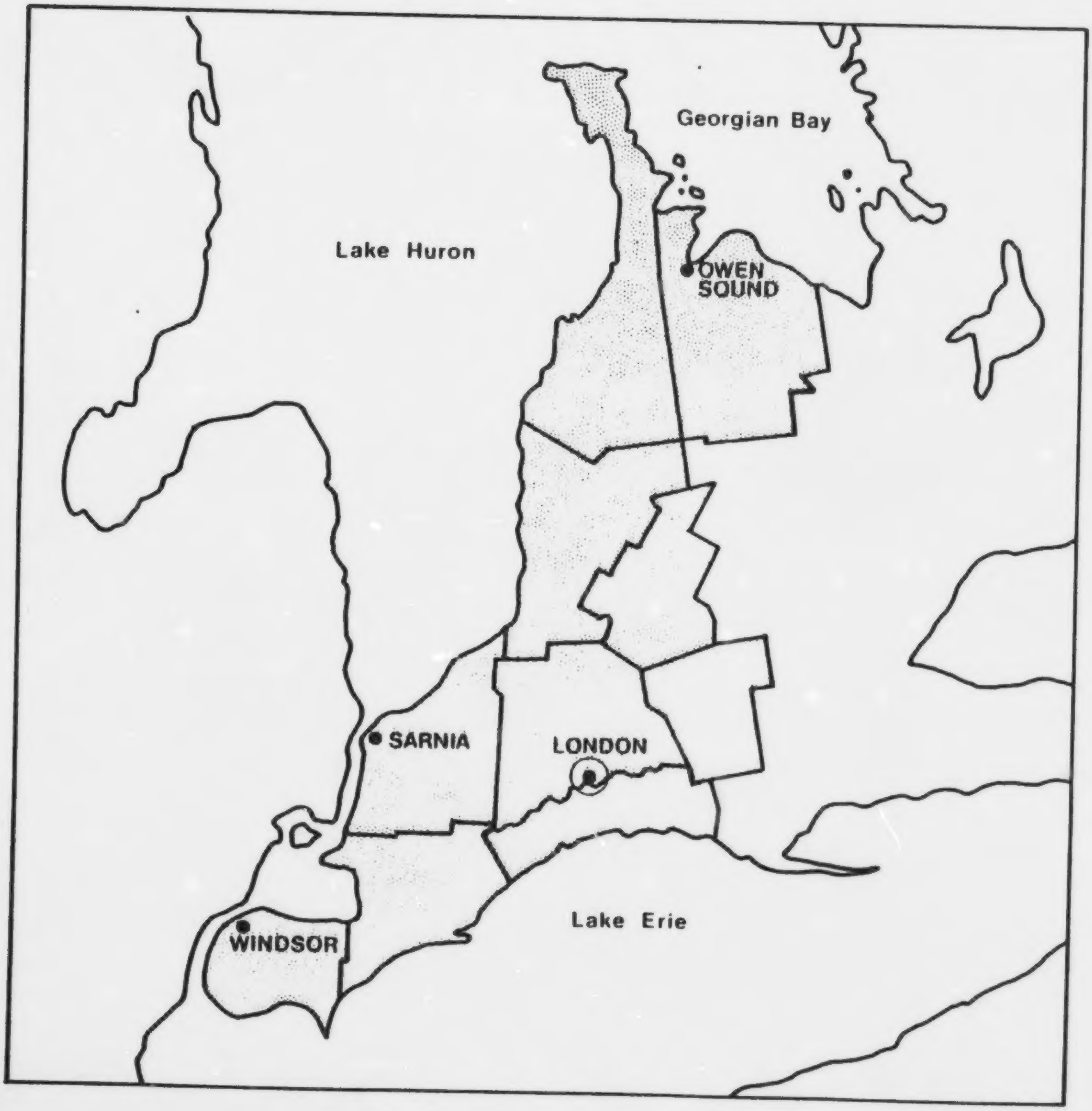

LAKE SUPERIOR
ALGOMA
SUDBURY
SAULT STE MARIE
⑤
NORTHEASTERN REGION
SUDBURY
NORTH BAY
PARRY SOUND
Perry Sound
Huntsville
MUSKOKA
HALIBURTON
GRAVENHURST
LAKE MICHIGAN
MANITOULIN
OTTAWA RIVER
Pembroke
RENFREW
OTTAWA
OTTAWA CARLETON
PRESCOTT
RUSSELL
GLENGARRY
STORMONT
CORNWALL
DUNDAS
SOUTHEASTERN REGION
LANARK
Perth
GRENVILLE
④
LEEDS
FRONTENAC
LENNOX AND ADDINGTON
HASTINGS
ST LAWRENCE RIVER
KINGSTON
Belleville
PRINCE EDWARD
NORTHUMBERLAND
PETERBOROUGH
VICTORIA
③
CENTRAL REGION
DURHAM
YORK
BARRIE
SIMCOE
OWEN SOUND
GREY
BRUCE
DUFFERIN
PEEL
TORONTO
OAKVILLE
HALTON
HAMILTON
HAMILTON WENTWORTH
WELLINGTON
WATERLOO
CAMBRIDGE
PERTH
HURON
Clinton
LAKE HURON
SOUTHWESTERN REGION
①
MIDDLESEX
LONDON
OXFORD
BRANT
②
NIAGARA
WELLAND
HALDIMAND NORFOLK
WEST CENTRAL REGION
ELGIN
LAMBTON
SARNIA
KENT
Chatham
Lake St Clair
WINDSOR
ESSEX
LAKE ERIE
LAKE ONTARIO
U S A
Ontario
Ministry of the Environment
HUDSON BAY
JAMES BAY
KENORA
PATRICIA PORTION
NORTHWESTERN REGION
⑥
⑤
NORTHEASTERN REGION
COCHRANE
TIMMINS
TIMISKAMING
KENORA
PAINT RIVER
THUNDER BAY
THUNDER BAY
LAKE SUPERIOR
SUDBURY
NIPISSING
SAULT STE MARIE
SUDBURY
NORTHERN ONTARIO
Regional Offices ■ HAMILTON
District Offices ● SARNIA
Other Offices ▲ Chatham
Revised November 1974
Map 2001-4

REGIONS AND OFFICES IN ONTARIO

Southwestern Region

①

Ministry
of the
Environment
Ontario


Georgian Bay
Lake Huron
OWEN SOUND
SARNIA
LONDON
WINDSOR
Lake Erie

Southwestern Region

①

Ministry
of the
Environment
Ontario

REGIONAL OFFICE

London
985 Adelaide St. South
N6E 1V3
(519) 661-2200

DISTRICT OFFICES

London South
985 Adelaide St. South
N6E 1V3
(519) 661-2200

London North
985 Adelaide St. South
N6E 1V3
(519) 661-2200

Owen Sound
1180 20th St. East
N4K 6H6
(519) 371-2901

Sarnia
265 North Front St.
N7T 7X1
(519) 336-4030

Windsor
250 Windsor Ave.
N9A 6V9
(519) 254-2546

SUB-OFFICES

Chatham
c/o Ministry of
Agriculture & Food
435 Grand Ave. West
N7M 5L1
(519) 354-2150

Clinton
c/o Ministry of
Agriculture & Food
P.O. Box 688
N0M 1L0
(519) 482-3428

SOUTHWESTERN SEWAGE SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	0	0	.000	.000	.000 (.000)
Primary	2	3	5	27.139	237.342	264.481 (58.179)
Conventional Activated Sludge	8	12	21	57.093	363.498	420.591 (92.519)
Modified Activated Sludge	0	0	0	.000	.000	.000 (.000)
Contact Stabilization	0	1	1	.000	1.818	1.818 (.400)
Extended Aeration	18	2	20	32.626	23.170	55.797 (12.274)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	1	0	1	3.909	.000	3.909 (.860)
Oxidation Ditch	2	1	3	3.750	6.455	10.205 (2.245)
Aerated Lagoon	1	2	3	1.122	8.578	9.701 (2.134)
Conventional Lagoon Continuous	2	1	3	3.609	1.459	5.068 (1.115)
Conventional Lagoon Seasonal	32	3	35	35.486	6.309	41.795 (9.194)
Conventional Lagoon Annual	5	0	5	2.145	.000	2.145 (.472)
Lagoon and Spray	1	0	1	.568	.000	.568 (.125)
Aerated Cell Plus Lagoon	6	1	7	19.443	.168	19.611 (4.314)
Exfiltration Lagoon	0	0	0	.000	.000	.000 (.000)
TOTALS	78	26	104	186.895 (41.112)	648.800 (142.719)	835.695 (183.831)

10^3m/d: THOUSANDS OF CUBIC METRES PER DAY
mIgd: MILLION IMPERIAL GALLONS PER DAY

CONVERSION FACTOR
$10^3m^3/d$ = .220 MIGD

ABBREVIATIONS FOR APPENDIX B

%REM	Percent Removal
AVG	Average
BOD	Biochemical Oxygen Demand
EFF	Effluent
IJC	International Joint Commision
INF	Influent
kg/d	Kilograms per day
m3/d	Cubic metres per day
mg/l	Milligrams per litre
P.V.	Police Village
SS	Suspended Solids
TP	Total Phosphorus
WPCP	Water Pollution Control Plant (same as STP)

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: ALVINSTON	REGION	: SOUTHWEST
PLANT	: ALVINSTON WPCP	DISTRICT	: SARNIA
WORKS NUMBER	: 110002069	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: SYDENHAM RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ERIE
DESIGN CAPACITY	: 0.60 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 647		

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.186	41.0	1.5		0.279	49.0	5.7		1.060	4.3	0.8	0.143
FEB	0.151	121.0	2.0		0.302	89.0	6.9		1.042	7.4	0.5	0.075
MAR	0.144	80.0	1.6		0.230	101.0	5.0		0.720	3.9	0.1	0.019
APR	0.176	115.0	7.3		1.285	146.0	5.7		1.003	6.9	0.8	0.132
MAY	0.122	94.0	0.1		0.012	108.0	4.3		0.525	5.2	0.3	0.039
JUN	0.108	94.0	2.5		0.270	128.0	9.6		1.037	5.7	0.4	0.041
JUL	0.138	81.0	2.9		0.400	120.0	6.1		0.842	6.3	0.6	0.083
AUG	0.085	195.0	4.2		0.357	208.0	12.3		1.046	7.5	0.4	0.032
SEP	0.106	122.0	1.4		0.148	99.0	7.8		0.827	7.3	0.4	0.041
OCT	0.132	133.0	1.7		0.224	133.0	6.3		0.832	8.3	0.2	0.020
NOV	0.106	135.0	1.9		0.201	87.0	5.1		0.541	7.0	0.2	0.024
DEC	0.224	124.0	4.0		0.896	166.0	12.0		2.688	6.9	0.5	0.112
AVERAGE:	0.140	111.0	2.6		0.384	120.0	7.2		1.014	6.4	0.4	0.063
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		17	17			16	17			17	17	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : AMHERSTBURG
PLANT : AMHERSTBURG WPCP
WORKS NUMBER : 120001087
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 7.76 1000 m3
POPULATION SERVED : 8500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	10.058	57.0	10.0	82	100.580	88.0	15.3	83	153.887	6.6	0.6	5.834
FEB	7.753	61.0	20.6	66	159.712	177.0	22.4	87	173.667	5.4	0.7	5.039
MAR	8.786	11.0	6.3	43	55.352	38.0	13.0	66	114.218	1.0	0.2	1.933
APR	10.600	238.0	33.9	86	359.340	579.0	17.4	97	184.440	8.9	1.9 *	20.140
MAY	8.076	145.0	36.1	75	291.544	146.0	24.0	84	193.824	2.3	0.9	7.349
JUN	ND	119.0	31.1	74	ND	140.0	26.2	81	ND	7.0	1.4 *	ND
JUL	ND	102.0	25.0	75	ND	228.0	25.0	89	ND	5.8	0.7	ND
AUG	8.806	54.0	20.0	63	176.120	59.0	24.2	59	213.105	3.6	1.8 *	15.410
SEP	7.553	117.0	40.0	66	302.120	131.0	28.1	79	212.239	2.9	0.9	6.647
OCT	5.510	ND	ND	0	ND	122.0	28.2	77	155.382	2.8	0.9	4.849
NOV	6.651	ND	ND	0	ND	111.0	25.7	77	170.931	3.5	1.0	6.451
DEC	9.754	67.0	24.3	64	237.022	108.0	12.6	88	122.900	4.2	0.2	1.951
AVERAGE:	8.355	97.0	24.7	69	210.224	161.0	21.8	81	169.459	4.5	0.9	7.560
OBSERVATIONS:	10	10	10			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		15	10			31	31			26	26	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
SEWER SEPARATION UNDERWAY	87/07/01	87/09/30	87/09/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ANDERDON
PLANT : EDGEWATER BEACH LAGOON
WORKS NUMBER : 110002407
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.61 1000 m3
POPULATION SERVED : 1033

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DETROIT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.657	85.0	ND			78.0	ND			6.4	ND	
FEB	0.787	57.0	ND			42.0	ND			5.1	ND	
MAR	0.432	57.0	ND			47.0	ND			4.5	ND	
APR	0.599	89.0	ND			73.0	ND			5.6	ND	
MAY	0.384	105.0	3.3			81.0	7.5			8.0	0.7	
JUN	0.568	34.0	ND			246.0	ND			4.8	ND	
JUL	0.651	57.0	ND			75.0	ND			6.8	ND	
AUG	0.202	86.0	ND			39.0	ND			5.2	ND	
SEP	0.368	153.0	ND			46.0	ND			8.0	ND	
OCT	0.492	152.0	ND			119.0	ND			9.9	ND	
NOV	0.491	148.0	5.4			98.0	10.9			9.3	0.5	
DEC	0.768	13.0	ND			125.0	ND			5.4	ND	
AVERAGE:	0.533	86.0	4.4		1.959	89.0	9.2		4.116	6.6	0.6	0.265
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		14	15			14	15			14	15	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ANDERDON
PLANT : MCGREGOR LAGOON
WORKS NUMBER : 110002096
TREATMENT : LAGOON AND SPRAY
NO DISCHARGE

DESIGN CAPACITY : 0.56 1000 m3
POPULATION SERVED : 1287

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : KING'S CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.377	103.0	ND		ND	137.0	ND		ND	7.6	ND	ND
FEB	0.379	137.0	ND		ND	178.0	ND		ND	7.9	ND	ND
MAR	0.476	184.0	ND		ND	144.0	ND		ND	6.6	ND	ND
APR	0.536	106.0	ND		ND	145.0	ND		ND	6.4	ND	ND
MAY	0.442	174.0	3.6		1.591	179.0	13.5		5.967	8.6	0.3	0.133
JUN	0.534	180.0	7.7		4.112	271.0	10.8		5.767	8.4	0.5	0.288
JUL	0.443	105.0	5.6		2.481	141.0	17.3		7.664	8.7	0.8	0.354
AUG	0.543	123.0	5.1		2.769	123.0	8.0		4.344	7.4	0.6	0.299
SEP	0.526	121.0	1.5		0.789	124.0	9.3		4.892	8.2	0.2	0.084
OCT	0.454	237.0	3.3		1.498	252.0	4.5		2.043	10.8	0.3	0.136
NOV	0.532	128.0	ND		ND	98.0	ND		ND	7.2	ND	ND
DEC	0.641	132.0	ND		ND	115.0	ND		ND	7.7	ND	ND
AVERAGE:	0.490	144.0	4.5		2.207	159.0	10.6		5.113	8.0	0.4	0.216
OBSERVATIONS:12		12	6			12	6			12	6	
EXCEEDANCES												
NO OF SAMPLES		24	6			24	6			24	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ARRAN
PLANT : TARA LAGOON
WORKS NUMBER : 110003237
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.65 1000 m3
POPULATION SERVED : 590

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SAUBLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/a)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.180	154.0	ND			193.0	ND			15.3	ND	
FEB	0.172	187.0	ND			159.0	ND			11.2	ND	
MAR	0.236	120.0	ND			240.0	ND			6.3	ND	
APR	0.194	124.0	ND			145.0	ND			9.0	ND	
MAY	0.176	121.0	10.0			77.0	32.4			7.2	0.5	
JUN	0.177	257.0	ND			341.0	ND			13.2	ND	
JUL	0.183	76.0	ND			88.0	ND			7.0	ND	
AUG	0.200	125.0	ND			93.0	ND			9.1	ND	
SEP	0.220	139.0	ND			131.0	ND			8.2	ND	
OCT	0.250	116.0	ND			123.0	ND			5.1	ND	
NOV	0.258	121.0	1.8			110.0	17.1			4.9	0.6	
DEC	0.265	144.0	ND			131.0	ND			9.1	ND	
AVERAGE:	0.209	140.0	5.9		1.112	153.0	24.8		5.057	8.8	0.5	0.118
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		12	7			12	7			12	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : AYLMER
PLANT : AYLMER LAGOON
WORKS NUMBER : 110000891
TREATMENT : AERATED CELL PLUS LAGOON
SUMMER STORAGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.23 1000 m3
POPULATION SERVED : 5300

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CATFISH CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.365	131.0	6.1			119.0	7.6			6.2	2.0 *	
FEB	3.094	194.0	5.3			166.0	5.8			15.4	1.3 *	
MAR	3.813	210.0	17.7			126.0	18.8			11.4	1.7 *	
APR	5.216	85.0	29.8			99.0	48.8			8.0	1.6 *	
MAY	3.345	125.0	ND			124.0	ND			7.5	ND	
JUN	2.958	213.0	ND			167.0	ND			7.2	ND	
JUL	2.753	142.0	ND			127.0	ND			19.0	ND	
AUG	3.136	248.0	ND			123.0	ND			11.7	ND	
SEP	3.015	129.0	ND			119.0	ND			9.4	ND	
OCT	3.106	238.0	ND			174.0	ND			12.1	ND	
NOV	3.278	121.0	ND			128.0	ND			6.3	ND	
DEC	4.839	100.0	11.4			74.0	29.6			5.8	1.2 *	
AVERAGE:	3.493	161.0	14.1		63.003	129.0	22.1		102.596	10.0	1.5 *	6.245
OBSERVATIONS:12		12	5			12	5			12	5	
EXCEEDANCES											5	
NO OF SAMPLES		19	13			16	13			18	14	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PROCESS CONTROL IMPROVEMENTS UDERWAY	87/12/01	88/07/31	88/04/30
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	88/02/28	88/07/31	88/04/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BELMONT
PLANT : BELMONT LAGOON
WORKS NUMBER : 110002032
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.56 1000 m3
POPULATION SERVED : 1302

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : KETTLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.320	164.0	ND			333.0	ND			9.3	ND	
FEB	0.260	65.0	ND			49.0	ND			5.5	ND	
MAR	0.390	46.0	ND			70.0	ND			4.0	ND	
APR	0.440	75.0	13.6			110.0	44.3			6.4	1.2 *	
MAY	0.280	177.0	ND			141.0	ND			9.4	ND	
JUN	0.290	76.0	ND			70.0	ND			5.0	ND	
JUL	0.270	57.0	ND			90.0	ND			6.0	ND	
AUG	0.290	67.0	ND			94.0	ND			5.6	ND	
SEP	0.290	117.0	ND			106.0	ND			7.5	ND	
OCT	0.290	75.0	5.5			84.0	6.6			5.7	0.6	
NOV	0.360	62.0	ND			66.0	ND			4.6	ND	
DEC	0.480	49.0	ND			45.0	ND			3.9	ND	
AVERAGE:	0.330	86.0	9.6		3.789	105.0	25.5		10.703	6.1	0.9	0.347
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES											1	
NO OF SAMPLES		26	13			26	13			26	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLANDFORD-BLENHEIM
PLANT : PLATTSVILLE LAGOON
WORKS NUMBER : 110003022
TREATMENT : AERATED CELL PLUS LAGOON
SEASONAL DISCHARGE
PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 0.59 1000 m3
POPULATION SERVED : 555

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NITH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.291	152.0	ND			451.0	ND			6.0	ND	
FEB	0.338	145.0	ND			266.0	ND			6.2	ND	
MAR	0.342	86.0	ND			109.0	ND			4.1	ND	
APR	0.546	114.0	7.4			207.0	43.2			4.3	0.2	
MAY	0.351	35.0	8.8			84.0	29.0			2.1	0.2	
JUN	0.427	69.0	ND			124.0	ND			4.2	ND	
JUL	0.348	104.0	ND			234.0	ND			4.9	ND	
AUG	0.424	33.0	ND			94.0	ND			2.2	ND	
SEP	0.295	115.0	ND			179.0	ND			2.4	ND	
OCT	0.358	60.0	ND			159.0	ND			2.6	ND	
NOV	0.315	160.0	5.1			225.0	22.1			3.7	0.2	
DEC	0.380	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.368	98.0	7.1		2.912	194.0	31.4		13.576	3.9	0.2	0.081
OBSERVATIONS:12		11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		11	9			11	8			11	9	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLENHEIM
PLANT : BLENHEIM LAGOON
WORKS NUMBER : 120001666
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.95 1000 m3
POPULATION SERVED : 4175

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CAMERON DR - MCGREGOR CK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.590	162.0	ND			156.0	ND			8.9	ND	
FEB	1.310	155.0	ND			201.0	ND			9.5	ND	
MAR	1.480	101.0	15.7			159.0	51.4			7.3	0.6	
APR	1.640	134.0	19.3			169.0	28.6			7.2	0.5	
MAY	1.340	159.0	ND			230.0	ND			9.8	ND	
JUN	1.410	122.0	ND			186.0	ND			7.4	ND	
JUL	1.351	394.0	ND			264.0	ND			9.7	ND	
AUG	1.628	145.0	ND			185.0	ND			8.9	ND	
SEP	1.685	148.0	ND			142.0	ND			6.7	ND	
OCT	1.503	181.0	ND			204.0	ND			8.4	ND	
NOV	1.428	136.0	15.4			119.0	65.1			8.4	0.7	
DEC	1.455	108.0	ND			118.0	ND			6.2	ND	
AVERAGE:	1.485	162.0	16.8		25.626	178.0	48.4 *		71.980	8.2	0.6	0.883
OBSERVATIONS:12		12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		13	14			13	14			13	14	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLYTH
PLANT : BLYTH WPCP
WORKS NUMBER : 110002247
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.73 1000 m3
POPULATION SERVED : 890

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BLYTH CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.302	127.0	4.3		1.299	151.0	5.0		1.510	8.0	0.4	0.124
FEB	0.312	142.0	12.8		3.994	162.0	7.4		2.309	9.4	0.2	0.072
MAR	0.375	130.0	5.1		1.912	186.0	2.9		1.087	7.2	0.3	0.094
APR	0.335	245.0	8.6		2.881	379.0	2.9		0.972	16.3	0.7	0.221
MAY	0.300	221.0	2.3		0.690	297.0	1.1		0.330	11.3	0.4	0.105
JUN	0.315	151.0	1.4		0.441	164.0	0.5		0.158	8.5	0.4	0.110
JUL	0.313	154.0	2.3		0.720	154.0	0.7		0.219	7.8	0.5	0.144
AUG	0.329	121.0	1.4		0.461	115.0	0.7		0.230	7.6	0.2	0.063
SEP	0.337	140.0	1.2		0.404	113.0	0.3		0.101	6.8	0.2	0.081
OCT	0.338	696.0	1.3		0.439	1668.0	2.6		0.879	20.7	0.1	0.037
NOV	0.365	101.0	1.2		0.438	121.0	0.8		0.292	6.1	0.2	0.066
DEC	0.409	102.0	2.3		0.941	120.0	1.7		0.695	6.5	0.2	0.078
AVERAGE:	0.336	194.0	3.7		1.218	302.0	2.2		0.732	9.7	0.3	0.100
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	29			23	29			23	29	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRUSSELS
PLANT : BRUSSELS WPCP
WORKS NUMBER : 110002354
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.88 1000 m3
POPULATION SERVED : 1010

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAITLAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.349	134.0	3.9		1.361	173.0	3.3		1.152	6.0	0.2	0.066
FEB	0.316	166.0	4.2		1.327	227.0	4.2		1.327	8.5	0.3	0.092
MAR	0.479	216.0	6.7		3.209	458.0	7.0		3.353	15.8	0.3	0.148
APR	0.433	133.0	2.1		0.909	209.0	2.0		0.866	8.9	0.2	0.087
MAY	0.311	249.0	1.0		0.311	419.0	1.5		0.467	16.9	0.3	0.084
JUN	0.335	302.0	0.9		0.302	418.0	0.7		0.234	20.3	0.4	0.117
JUL	0.322	220.0	1.4		0.451	390.0	1.0		0.322	14.7	0.2	0.061
AUG	0.292	227.0	1.2		0.350	304.0	1.2		0.350	11.2	0.2	0.047
SEP	0.274	129.0	1.6		0.438	212.0	0.8		0.219	9.2	0.1	0.033
OCT	0.293	143.0	1.7		0.498	320.0	0.9		0.264	16.1	0.1	0.032
NOV	0.396	125.0	1.9		0.752	116.0	0.9		0.356	7.1	0.3	0.103
DEC	0.379	151.0	1.6		0.606	236.0	0.2		0.076	12.0	0.2	0.068
AVERAGE:	0.348	183.0	2.4		0.876	290.0	2.0		0.749	12.2	0.2	0.078
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		26	32			26	27			24	27	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CHATHAM
PLANT : CHATHAM WPCP
WORKS NUMBER : 110000098
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 35.91 1000 m3
POPULATION SERVED : 41000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	23.750	129.0	3.2		76.000	174.0	14.6		346.750	8.3	0.3	7.125
FEB	23.200	190.0	3.6		83.520	208.0	16.4		380.480	18.8	0.5	11.600
MAR	21.080	163.0	4.9		103.292	214.0	16.2		341.496	20.1	0.8	16.864
APR	25.230	140.0	5.3		133.719	178.0	29.1		734.193	12.0	0.7	17.661
MAY	21.870	156.0	4.0		87.480	278.0	25.3		553.311	14.6	1.0	21.870
JUN	22.220	138.0	5.0		111.100	246.0	27.7		615.494	16.8	1.1 *	24.442
JUL	21.510	209.0	6.7		144.117	260.0	23.0		494.730	15.9	1.7 *	36.567
AUG	28.610	182.0	4.9		140.189	330.0	32.1		918.381	18.0	1.3 *	37.193
SEP	34.530	133.0	4.6		158.838	374.0	49.4		1705.782	10.1	1.2 *	41.436
OCT	28.800	273.0	4.1		118.080	390.0	36.3		1045.440	12.4	1.0	28.800
NOV	31.320	218.0	16.1		504.252	386.0	31.2		977.184	21.2	1.1 *	34.452
DEC	38.180	127.0	11.1		423.798	242.0	12.0		458.160	10.9	0.9	34.362
AVERAGE:	26.692	172.0	6.1		173.699	273.0	26.1 *		714.283	14.9	1.0	26.031
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											5	
NO OF SAMPLES		65	65			247	229			99	97	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/06/01	88/12/31	
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	88/06/01	88/12/31	
RE-EXAMINING MBR CRITERIA	88/06/01	88/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: CHESLEY	REGION	: SOUTHWEST
PLANT	: CHESLEY LAGOON MUN.OP.JAN'87	DISTRICT	: OWEN SOUND
WORKS NUMBER	: 110000105	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: NORTH SAUGEEN RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE HURON
DESIGN CAPACITY	: 1.45 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 1883		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.979	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	1.259	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	1.087	41.0	17.7		19.240	95.0	26.7		29.023	2.7	0.6	0.652
APR	0.682	103.0	8.4		5.729	110.0	14.4		9.821	3.7	0.3	0.205
MAY	0.400	98.0	3.0		1.200	173.0	4.1		1.640	5.9	1.2 *	0.480
JUN	0.526	20.0	2.1		1.105	27.0	0.8		0.421	2.2	0.9	0.473
JUL	0.526	37.0	4.0		2.104	59.0	2.8		1.473	3.3	1.0	0.526
AUG	0.561	16.0	1.7		0.954	37.0	4.9		2.749	1.9	0.8	0.449
SEP	0.481	59.0	1.3		0.625	107.0	3.6		1.732	4.0	1.3 *	0.625
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	0.925	52.0	3.7		3.423	50.0	5.7		5.273	4.0	0.9	0.833
DEC	0.955	39.0	4.8		4.584	64.0	15.8		15.089	2.6	0.8	0.764
AVERAGE:	0.762	52.0	5.2		4.329	80.0	8.8		7.469	3.4	0.9	0.556
OBSERVATIONS:	11	9	9			9	9			9	9	
EXCEEDANCES											2	
NO OF SAMPLES		10	10			10	10			10	10	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CLINTON
PLANT : CLINTON WPCP
WORKS NUMBER : 120000925
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT FILTRATION
DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 3000

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BAYFIELD RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.162	87.0	2.7		5.837	68.0	3.4		7.351	3.7	0.6	1.189
FEB	1.763	85.0	2.2		3.879	93.0	0.9		1.587	4.5	0.7	1.199
MAR	3.113	57.0	2.8		8.716	63.0	10.2		31.753	3.2	0.9	2.926
APR	2.560	84.0	18.0		46.080	41.0	4.9		12.544	2.3	0.8	2.150
MAY	1.298	130.0	11.8		15.316	161.0	2.1		2.726	7.1	0.7	0.844
JUN	1.322	108.0	13.6		17.979	217.0	3.2		4.230	7.0	0.6	0.806
JUL	1.417	48.0	4.8		6.802	102.0	12.0		17.004	5.0	0.5	0.709
AUG	1.377	134.0	0.9		1.239	155.0	1.2		1.652	9.2	1.2 *	1.652
SEP	1.390	104.0	2.1		2.919	106.0	1.3		1.807	6.5	1.1 *	1.460
OCT	1.872	66.0	1.0		1.872	147.0	0.4		0.749	4.2	0.5	0.899
NOV	2.900	22.0	1.4		4.060	35.0	2.0		5.800	1.2	0.3	0.783
DEC	3.800	27.0	10.6		40.280	28.0	7.7		29.260	1.5	0.7	2.584
AVERAGE:	2.081	79.0	6.0		12.915	101.0	4.1		9.705	4.6	0.7	1.433
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	86/01/01	86/12/31	
UNDER CONSTRUCTION	87/01/01		
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	86/01/01	86/12/31	88/12/31
INFILTRATION PROBLEMS ARE BEING CORRECTED	87/01/01	87/12/31	
PROCESS CONTROL IMPROVEMENTS UNDERWAY			1988
ENVIRONMENTAL ASSESSMENT PROCESS			1990

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COLLINGWOOD
PLANT : CRAIGLEIGH WPCP
WORKS NUMBER : 120001951
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT FILTRATION
DESIGN CAPACITY : 4.07 1000 m3
POPULATION SERVED : 3000

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.586	37.0	0.7		0.410	39.0	3.0		1.758	3.0	0.3	0.199
FEB	0.546	41.0	2.6		1.420	35.0	3.4		1.856	5.4	0.3	0.153
MAR	0.561	82.0	4.1		2.300	227.0	5.4		3.029	4.8	0.3	0.185
APR	0.559	10.0	1.4		0.783	14.0	3.3		1.845	1.1	0.5	0.257
MAY	0.383	17.0	1.0		0.383	15.0	2.8		1.072	2.1	0.5	0.176
JUN	0.417	24.0	1.2		0.500	74.0	2.3		0.959	2.7	0.4	0.150
JUL	0.572	58.0	1.9		1.087	84.0	0.7		0.400	3.8	0.3	0.183
AUG	0.640	46.0	1.2		0.768	70.0	0.5		0.320	4.0	0.3	0.198
SEP	0.526	19.0	0.7		0.368	75.0	1.0		0.526	3.3	0.2	0.110
OCT	0.577	36.0	0.1		0.058	55.0	1.7		0.981	0.5	0.2	0.110
NOV	0.635	11.0	1.2		0.762	35.0	0.3		0.191	2.1	0.2	0.121
DEC	0.834	7.0	4.9		4.087	45.0	1.7		1.418	2.0	0.4	0.325
AVERAGE:	0.570	32.0	1.8		1.077	64.0	2.2		1.196	2.9	0.3	0.181
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			48	47			69	142	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DOVER
PLANT : MITCHELL'S BAY LAGOON
WORKS NUMBER : 110002087
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.50 1000 m3
POPULATION SERVED : 350

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ST. CLAIR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.130	20.0	ND			153.0	ND			1.5	ND	
FEB	0.118	81.0	ND			107.0	ND			4.5	ND	
MAR	0.132	73.0	ND			109.0	ND			3.4	ND	
APR	0.133	ND	ND			ND	ND			ND	ND	
MAY	0.133	72.0	ND			107.0	ND			ND	ND	
JUN	0.167	68.0	ND			76.0	ND			4.7	ND	
JUL	0.176	ND	ND			ND	ND			ND	ND	
AUG	0.160	66.0	ND			195.0	ND			1.9	ND	
SEP	0.135	115.0	ND			126.0	ND			6.5	ND	
OCT	0.097	178.0	ND			216.0	ND			8.4	ND	
NOV	0.102	67.0	ND			43.0	ND			4.0	ND	
DEC	0.143	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.136	82.0	0.0		0.000	126.0	0.0		0.000	4.4	0.0	0.000
OBSERVATIONS:12		9	0			9	0			8	0	
EXCEEDANCES												
NO OF SAMPLES		9	0			10	0			7	0	

COMPLIANCE :	CRITERIA :
BOD - NO DISCHARGE	BOD - 30 mg/l
SS - NO DISCHARGE	SS - 40 mg/l
TP - NO DISCHARGE	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DRESDEN
PLANT : DRESDEN WPCP
WORKS NUMBER : 110002014
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 2278

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SYDENHAM RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.565	106.0	6.9		10.799	152.0	8.1		12.676	4.9	0.4	0.579
FEB	1.333	96.0	5.3		7.065	228.0	8.0		10.664	5.2	0.2	0.227
MAR	1.757	232.0	2.8		4.920	188.0	5.8		10.191	4.9	0.2	0.299
APR	1.540	170.0	5.7		8.778	269.0	12.6		19.404	5.2	0.3	0.477
MAY	1.645	177.0	4.2		6.909	235.0	9.0		14.805	4.9	0.2	0.263
JUN	2.054	115.0	5.3		10.886	221.0	12.1		24.853	5.7	0.5	1.006
JUL	1.406	214.0	4.4		6.186	241.0	11.9		16.731	6.7	0.3	0.464
AUG	2.058	79.0	5.7		11.731	171.0	14.6		30.047	5.4	0.3	0.659
SEP	3.522	75.0	6.2		21.836	119.0	19.0		66.918	4.4	0.5	1.655
OCT	1.810	119.0	10.1		18.281	196.0	31.0		56.110	6.1	1.0	1.882
NOV	1.855	317.0	13.4		24.857	205.0	16.7		30.978	9.0	1.2 *	2.263
DEC	2.142	598.0	9.8		20.992	276.0	16.3		34.915	5.6	0.6	1.178
AVERAGE:	1.891	192.0	6.7		12.770	208.0	13.8		27.358	5.7	0.5	0.913
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		45	45			132	132			109	40	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING	88/02/01		
ENFORCING BY-LAWS	88/02/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUNDALK
PLANT : DUNDALK LAGOON
WORKS NUMBER : 110001471
TREATMENT : AERATED CELL PLUS LAGOON
SUMMER STORAGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 1.05 1000 m3
POPULATION SERVED : 1287

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FOLEY DRAIN TO GRAND R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.675	65.0	ND			209.0	ND			5.1	ND	
FEB	0.602	116.0	8.0			165.0	7.7			4.4	0.8	
MAR	1.212	8.0	19.2			15.0	19.7			1.1	0.7	
APR	1.218	ND	3.3			ND	4.1			ND	0.1	
MAY	0.612	24.0	ND			52.0	ND			2.8	ND	
JUN	0.672	43.0	ND			71.0	ND			4.2	ND	
JUL	0.588	145.0	ND			360.0	ND			10.1	ND	
AUG	0.579	15.0	ND			55.0	ND			2.0	ND	
SEP	0.536	70.0	ND			66.0	ND			4.2	ND	
OCT	0.596	63.0	ND			75.0	ND			5.2	ND	
NOV	0.788	33.0	ND			76.0	ND			2.8	ND	
DEC	1.135	18.0	ND			14.0	ND			1.5	ND	
AVERAGE:	0.768	54.0	10.2		10.702	105.0	10.5		11.168	3.9	0.5	0.488
OBSERVATIONS:	12	11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		11	4			11	4			11	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DURHAM
PLANT : DURHAM MUN WPCP
WORKS NUMBER : 110000999
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.18 1000 m3
POPULATION SERVED : 2293

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.790	101.0	18.3		14.457	273.0	17.0		13.430	6.5	1.0	0.798
FEB	0.800	150.0	18.7		14.960	384.0	22.8		18.240	6.8	1.0	0.800
MAR	0.930	149.0	7.2		6.696	410.0	14.0		13.020	6.1	0.5	0.493
APR	1.060	116.0	2.6		2.756	372.0	3.8		4.028	5.3	0.2	0.201
MAY	0.860	138.0	1.7		1.462	920.0	5.0		4.300	10.2	0.3	0.232
JUN	0.720	117.0	1.0		0.720	393.0	2.7		1.944	7.4	0.2	0.122
JUL	0.690	62.0	1.6		1.104	273.0	3.4		2.346	5.6	1.0	0.669
AUG	0.720	109.0	1.0		0.720	338.0	3.4		2.448	8.1	0.2	0.151
SEP	0.720	134.0	1.2		0.864	365.0	3.9		2.808	7.6	0.2	0.122
OCT	0.730	124.0	1.5		1.095	342.0	4.3		3.139	8.3	0.2	0.146
NOV	0.810	136.0	3.2		2.592	390.0	6.0		4.860	8.4	0.3	0.251
DEC	0.880	114.0	3.2		2.816	263.0	6.8		5.984	6.8	0.3	0.264
AVERAGE:	0.809	121.0	5.1		4.187	394.0	7.8		6.379	7.3	0.4	0.354
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		26	26			26	26			26	26	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			87/02/28

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUTTON
PLANT : DUTTON LAGOON
WORKS NUMBER : 110001266
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.31 1000 m3
POPULATION SERVED : 809

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BENNETT CK. TO L. ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.702	213.0	ND			196.0	ND			11.0	ND	
FEB	0.432	ND	ND			ND	ND			ND	ND	
MAR	0.448	230.0	ND			236.0	ND			10.8	ND	
APR	0.442	166.0	17.0			161.0	47.2			7.5	0.5	
MAY	0.438	159.0	38.2			132.0	87.6			8.5	9.5 *	
JUN	0.325	206.0	ND			205.0	ND			8.9	ND	
JUL	0.345	142.0	ND			129.0	ND			7.8	ND	
AUG	0.419	187.0	ND			116.0	ND			8.9	ND	
SEP	0.331	198.0	ND			174.0	ND			9.3	ND	
OCT	0.343	ND	8.4			ND	11.5			ND	0.4	
NOV	0.367	121.0	ND			116.0	ND			7.7	ND	
DEC	0.425	117.0	ND			77.0	ND			6.6	ND	
AVERAGE:	0.418	174.0	21.2		9.042	154.0	48.8 *		21.059	8.7	3.4 *	1.489
OBSERVATIONS:	12	10	3			10	3			10	3	
EXCEEDANCES											1	
NO OF SAMPLES		10	9			10	9			10	9	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS	86/04/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAST WILLIAMS
PLANT : AILSA CRAIG WPCP
WORKS NUMBER : 110002050
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.60 1000 m3
POPULATION SERVED : 843

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AUSABLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.390	112.0	6.9		2.691	172.0	17.5		6.825	7.1	0.7	0.277
FEB	0.320	136.0	7.4		2.368	224.0	27.1		8.672	8.1	1.0	0.333
MAR	0.390	84.0	7.1		2.769	119.0	24.6		9.594	7.8	0.7	0.265
APR	0.390	108.0	8.8		3.432	133.0	11.5		4.485	5.8	0.6	0.246
MAY	0.280	152.0	6.5		1.820	241.0	12.2		3.416	8.8	1.0	0.269
JUN	0.250	150.0	4.4		1.100	242.0	15.2		3.800	9.4	1.1 *	0.285
JUL	0.240	111.0	2.5		0.600	193.0	7.9		1.896	8.0	0.6	0.137
AUG	0.250	114.0	2.1		0.525	142.0	8.6		2.150	7.1	0.5	0.130
SEP	0.270	131.0	2.0		0.540	163.0	5.2		1.404	7.9	0.7	0.181
OCT	0.350	167.0	2.5		0.875	216.0	6.4		2.240	8.5	0.4	0.133
NOV	0.400	151.0	6.6		2.640	178.0	14.1		5.640	7.2	0.9	0.348
DEC	0.480	87.0	7.2		3.456	103.0	13.2		6.336	5.3	0.8	0.394
AVERAGE:	0.334	125.0	5.3		1.901	177.0	13.6		4.705	7.6	0.7	0.250
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		24	24			24	24			24	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	88/04/30	88/08/31	89/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAST ZORRA-TAVISTOCK
PLANT : TAVISTOCK LAGOON
WORKS NUMBER : 110000720
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.77 1000 m3
POPULATION SERVED : 1952

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRIBUTARY TO THAMES R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.830	101.0	ND			106.0	ND			5.9	ND	
FEB	0.720	990.0	ND			779.0	ND			71.9	ND	
MAR	1.120	227.0	ND			189.0	ND			17.2	ND	
APR	1.090	66.0	30.8			63.0	51.3			4.7	1.3 *	
MAY	0.740	532.0	ND			340.0	ND			13.7	ND	
JUN	0.760	433.0	ND			153.0	ND			14.7	ND	
JUL	0.920	247.0	ND			106.0	ND			9.6	ND	
AUG	0.790	150.0	ND			83.0	ND			7.5	ND	
SEP	0.740	341.0	ND			122.0	ND			3.7	ND	
OCT	0.800	468.0	ND			226.0	ND			12.5	ND	
NOV	0.950	362.0	ND			140.0	ND			12.9	ND	
DEC	1.140	53.0	ND			44.0	ND			3.4	ND	
AVERAGE:	0.883	331.0	30.8 *		33.572	196.0	51.3 *		55.917	14.8	1.3 *	1.428
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES											1	
NO OF SAMPLES		12	1			12	1			12	1	

COMPLIANCE :

BOD - NO
SS - NO
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER CONSTRUCTION		88/04/30	88/04/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ENNISKILLEN
PLANT : OIL CITY LAGOON
WORKS NUMBER : 110001738
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.18 1000 m3
POPULATION SERVED : 212

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BLACK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.070	166.0	ND			108.0	ND			8.0	ND	
FEB	0.060	153.0	ND			100.0	ND			9.2	ND	
MAR	0.060	185.0	ND			168.0	ND			9.5	ND	
APR	0.075	124.0	4.8			83.0	14.6			6.0	0.2	
MAY	0.060	130.0	21.5			67.0	92.7			8.0	1.0	
JUN	0.050	129.0	ND			74.0	ND			9.4	ND	
JUL	0.060	110.0	ND			70.0	ND			6.7	ND	
AUG	0.050	359.0	ND			331.0	ND			12.6	ND	
SEP	0.060	121.0	ND			60.0	ND			7.3	ND	
OCT	0.070	279.0	ND			283.0	ND			11.4	ND	
NOV	0.060	156.0	ND			120.0	ND			9.4	ND	
DEC	0.070	107.0	ND			68.0	ND			6.6	ND	
AVERAGE:	0.062	168.0	13.2		0.825	128.0	53.7 *		3.329	8.7	0.6	0.035
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		24	2			24	2			24	2	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - NO	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ESSEX
PLANT : ESSEX LAGOON N.E.
WORKS NUMBER : 110000203
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.88 1000 m3
POPULATION SERVED : 4003

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : PUCE RIVER DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.952	38.0	ND			85.0	ND			2.0	ND	
FEB	2.005	25.0	ND			112.0	ND			2.0	ND	
MAR	2.016	37.0	ND			76.0	ND			2.0	ND	
APR	2.116	111.0	ND			131.0	ND			4.7	ND	
MAY	1.381	73.0	ND			62.0	ND			2.6	ND	
JUN	1.686	82.0	ND			169.0	ND			4.9	ND	
JUL	1.488	71.0	ND			92.0	ND			5.0	ND	
AUG	2.365	71.0	ND			164.0	ND			3.4	ND	
SEP	2.603	81.0	ND			50.0	ND			2.8	ND	
OCT	1.685	35.0	ND			46.0	ND			2.6	ND	
NOV	2.049	54.0	13.0			72.0	29.1			4.3	0.3	
DEC	3.053	74.0	ND			145.0	ND			3.6	ND	
AVERAGE:	2.033	63.0	13.0		26.637	100.0	29.1		59.626	3.3	0.3	0.615
OBSERVATIONS:	12	12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		13	23			13	23			12	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ESSEX
PLANT : ESSEX LAGOON S.W.
WORKS NUMBER : 110000837
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.52 1000 m3
POPULATION SERVED : 2519

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CANARD RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.895	112.0	ND			160.0	ND			5.9	ND	
FEB	0.865	148.0	ND			162.0	ND			7.4	ND	
MAR	0.872	146.0	ND			264.0	ND			7.7	ND	
APR	1.055	101.0	12.6			147.0	9.7			4.1	0.4	
MAY	0.996	172.0	ND			166.0	ND			7.7	ND	
JUN	1.298	152.0	ND			201.0	ND			9.0	ND	
JUL	0.945	133.0	ND			143.0	ND			7.5	ND	
AUG	0.961	228.0	ND			173.0	ND			8.7	ND	
SEP	1.419	83.0	ND			112.0	ND			5.9	ND	
OCT	0.763	169.0	ND			124.0	ND			8.5	ND	
NOV	0.724	140.0	11.2			155.0	29.0			10.9	0.6	
DEC	0.919	113.0	ND			120.0	ND			5.8	ND	
AVERAGE:	0.976	141.0	11.9		10.701	161.0	19.4		15.614	7.4	0.5	0.412
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		13	28			13	27			13	28	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EXETER
PLANT : EXETER LAGOON MUN.OP.'87
WORKS NUMBER : 110000221
TREATMENT : AERATED LAGOON
PHOSPHORUS REMOVAL - BATCH
SUMMER STORAGE
DESIGN CAPACITY : 3.39 1000 m3
POPULATION SERVED : 3750

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : AUSABLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.130	107.0	9.3			187.0	8.8			6.1	0.6	
FEB	1.630	328.0	ND			422.0	ND			10.5	ND	
MAR	2.240	282.0	ND			223.0	ND			4.6	ND	
APR	2.640	42.0	ND			213.0	ND			2.3	ND	
MAY	1.650	106.0	ND			184.0	ND			7.2	ND	
JUN	1.440	113.0	ND			105.0	ND			6.9	ND	
JUL	1.450	91.0	ND			102.0	ND			5.9	ND	
AUG	1.400	72.0	ND			69.0	ND			4.2	ND	
SEP	1.580	87.0	ND			110.0	ND			4.9	ND	
OCT	2.330	242.0	ND			182.0	ND			7.2	ND	
NOV	3.100	192.0	ND			104.0	ND			4.4	ND	
DEC	4.170	125.0	ND			127.0	ND			6.1	ND	
AVERAGE:	2.147	149.0	9.3		19.809	169.0	8.8		18.744	5.9	0.6	1.278
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		13	1			13	1			13	1	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FOREST
PLANT : FOREST LAGOON
WORKS NUMBER : 110001346
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : HICKORY CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 2600

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.027	143.0	ND			187.0	ND			4.1	ND	
FEB	0.990	131.0	ND			181.0	ND			9.3	ND	
MAR	1.028	182.0	ND			230.0	ND			3.7	ND	
APR	1.096	110.0	23.5			166.0	64.1			27.0	1.2	
MAY	0.993	275.0	ND			359.0	ND			11.4	ND	
JUN	0.835	199.0	ND			243.0	ND			8.0	ND	
JUL	0.826	166.0	ND			232.0	ND			6.7	ND	
AUG	0.865	100.0	ND			138.0	ND			4.7	ND	
SEP	0.978	209.0	ND			284.0	ND			10.4	ND	
OCT	1.046	131.0	12.6			192.0	60.6			5.9	1.0	
NOV	1.084	286.0	ND			249.0	ND			12.2	ND	
DEC	1.264	156.0	ND			156.0	ND			5.2	ND	
AVERAGE:	1.003	174.0	18.1		19.468	218.0	62.4 *		66.821	9.1	1.1	1.149
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		12	7			12	7			12	7	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GLENCOE
PLANT : GLENCOE LAGOON
WORKS NUMBER : 110001845
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.94 1000 m3
POPULATION SERVED : 1800

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NEWBIGGEN CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.652	152.0	ND			160.0	ND			10.3	ND	
FEB	0.632	167.0	ND			111.0	ND			8.4	ND	
MAR	0.480	160.0	ND			98.0	ND			7.3	ND	
APR	0.635	169.0	3.9			106.0	7.7			8.3	0.5	
MAY	0.634	151.0	ND			55.0	ND			8.0	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	0.750	109.0	ND			77.0	ND			8.9	ND	
AUG	0.748	206.0	ND			66.0	ND			7.6	ND	
SEP	0.373	108.0	ND			41.0	ND			7.0	ND	
OCT	0.648	164.0	12.0			195.0	22.2			8.3	1.0	
NOV	0.688	168.0	ND			ND	ND			8.4	ND	
DEC	1.086	130.0	ND			139.0	ND			5.9	ND	
AVERAGE:	0.666	153.0	8.0		5.127	105.0	15.0		9.637	8.0	0.8	0.489
OBSERVATIONS:	11	11	2			10	2			11	2	
EXCEEDANCES												
NO OF SAMPLES		17	9			16	9			17	9	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GODERICH
PLANT : GODERICH WPCP
WORKS NUMBER : 120000943
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 7400

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	8.000	153.0	6.5		52.000	229.0	10.6		84.800	6.0	1.0	7.680
FEB	7.000	153.0	6.7		46.900	311.0	8.0		56.000	6.3	1.1 *	7.700
MAR	9.900	93.0	8.2		81.180	274.0	13.1		129.690	4.6	1.2 *	11.880
APR	10.500	91.0	7.6		79.800	246.0	9.9		103.950	5.6	0.8	8.400
MAY	8.200	120.0	5.5		45.100	211.0	5.0		41.000	3.7	0.6	4.920
JUN	7.300	101.0	4.0		29.200	359.0	4.8		35.040	6.0	0.6	4.380
JUL	7.100	90.0	3.2		22.720	339.0	3.3		23.430	5.6	0.7	4.970
AUG	7.500	113.0	4.3		32.250	167.0	5.5		41.250	6.5	0.9	6.750
SEP	6.200	240.0	4.1		25.420	350.0	5.0		31.000	9.4	0.9	5.580
OCT	7.500	157.0	8.5		63.750	297.0	15.5		116.250	5.9	1.3 *	9.750
NOV	10.400	149.0	5.8		60.320	225.0	7.6		79.040	5.9	0.7	7.280
DEC	13.500	103.0	9.4		126.900	224.0	14.1		190.350	7.8	0.9	12.150
AVERAGE:	8.592	130.0	6.2		55.462	269.0	8.5		77.650	6.1	0.9	7.620
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		15	24			15	24			13	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GOSFIELD NORTH
PLANT : COTTAM LAGOON
WORKS NUMBER : 110002005
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MADDOX DRAIN TO BELLE R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.67 1000 m3
POPULATION SERVED : 825

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.299	80.0	ND			91.0	ND			5.2	ND	
FEB	0.282	130.0	ND			166.0	ND			7.8	ND	
MAR	0.289	90.0	ND			114.0	ND			5.5	ND	
APR	0.335	111.0	11.4			79.0	43.2			4.8	0.5	
MAY	0.264	42.0	14.4			28.0	37.4			3.7	0.3	
JUN	0.296	39.0	ND			33.0	ND			3.8	ND	
JUL	0.284	55.0	ND			60.0	ND			4.7	ND	
AUG	0.260	86.0	ND			71.0	ND			4.4	ND	
SEP	0.303	47.0	ND			63.0	ND			4.3	ND	
OCT	0.299	83.0	ND			55.0	ND			5.6	ND	
NOV	0.305	173.0	10.9			224.0	73.5			7.0	0.4	
DEC	0.352	83.0	ND			73.0	ND			5.0	ND	
AVERAGE:	0.297	85.0	12.2		3.649	88.0	51.4 *		15.588	5.1	0.4	0.118
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		13	11			13	11			13	11	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HANOVER
PLANT : HANOVER WPCP
WORKS NUMBER : 120001461
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 6.36 1000 m3
POPULATION SERVED : 6389

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.511	99.0	6.6		23.173	161.0	6.5		22.822	6.3	0.6	2.212
FEB	3.751	176.0	8.2		30.758	189.0	5.4		20.255	6.7	0.6	2.401
MAR	4.584	177.0	29.6		135.686	237.0	11.9		54.550	5.8	0.9	3.896
APR	3.824	123.0	6.4		24.474	188.0	6.2		23.709	5.6	0.6	2.409
MAY	3.150	129.0	2.4		7.560	269.0	4.2		13.230	7.5	0.7	2.331
JUN	3.537	351.0	4.1		14.502	348.0	3.4		12.026	8.2	0.7	2.582
JUL	3.489	71.0	2.2		7.676	168.0	3.9		13.607	6.1	0.8	2.687
AUG	3.851	365.0	6.1		23.491	271.0	9.1		35.044	8.4	1.1 *	4.198
SEP	3.629	430.0	9.2		33.387	383.0	11.2		40.645	8.2	1.2 *	4.464
OCT	3.685	206.0	14.9		54.907	285.0	7.8		28.743	8.2	0.9	3.243
NOV	4.404	350.0	6.7		29.507	222.0	6.3		27.745	7.7	0.8	3.303
DEC	4.464	242.0	9.9		44.194	185.0	8.7		38.837	6.3	0.5	2.321
AVERAGE:	3.823	227.0	8.9		35.776	242.0	7.1		27.601	7.1	0.8	3.004
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		12	12			12	12			12	46	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED		87/11/30	87/11/30
UPGRADING SLUDGE QUALITY			1988

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HARROW
PLANT : HARROW LAGOON
WORKS NUMBER : 110002103
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.52 1000 m3
POPULATION SERVED : 2302

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CEDAR CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.217	110.0	17.6			140.0	63.1			4.9	1.3 *	
FEB	1.140	122.0	ND			214.0	ND			6.5	ND	
MAR	1.235	53.0	ND			147.0	ND			6.0	ND	
APR	1.282	77.0	ND			140.0	ND			4.4	ND	
MAY	1.186	157.0	11.1			201.0	21.2			7.3	0.6	
JUN	1.152	130.0	ND			171.0	ND			6.0	ND	
JUL	1.185	107.0	ND			138.0	ND			7.0	ND	
AUG	1.258	99.0	ND			120.0	ND			6.0	ND	
SEP	1.349	295.0	ND			381.0	ND			12.0	ND	
OCT	1.159	165.0	ND			204.0	ND			6.0	ND	
NOV	1.365	138.0	9.9			186.0	12.2			5.0	0.7	
DEC	1.583	183.0	ND			111.0	ND			7.0	ND	
AVERAGE:	1.259	136.0	12.9		16.033	179.0	32.2		39.530	6.5	0.9	1.096
OBSERVATIONS:12		12	3			12	3			12	3	
EXCEEDANCES											1	
NO OF SAMPLES		27	11			26	10			27	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HENSALL
PLANT : HENSALL LAGOON
WORKS NUMBER : 110000926
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BLACK CK TO AUSABLE R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.59 1000 m3
POPULATION SERVED : 1000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.469	65.0	ND			156.0	ND			5.3	ND	
FEB	0.438	116.0	ND			167.0	ND			8.0	ND	
MAR	0.552	70.0	ND			102.0	ND			4.1	ND	
APR	0.512	129.0	3.6			233.0	6.4			7.0	0.7	
MAY	0.417	94.0	ND			88.0	ND			6.4	ND	
JUN	0.404	92.0	ND			85.0	ND			7.7	ND	
JUL	0.415	82.0	ND			108.0	ND			6.5	ND	
AUG	0.453	ND	ND			ND	ND			4.9	ND	
SEP	0.458	76.0	ND			86.0	ND			5.3	ND	
OCT	0.479	72.0	0.9			71.0	4.5			5.6	0.9	
NOV	0.579	80.0	ND			121.0	ND			6.5	ND	
DEC	0.596	135.0	ND			107.0	ND			8.0	ND	
AVERAGE:	0.481	92.0	2.3		1.137	120.0	5.5		2.716	6.3	0.8	0.394
OBSERVATIONS:12		11	2			11	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		11	7			11	7			12	7	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : INGERSOLL
PLANT : INGERSOLL NEW WPCP
WORKS NUMBER : 110003969
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 5400

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.440	131.0	6.9		30.636	639.0	8.1		35.964	13.3	0.3	1.199
FEB	4.370	330.0	12.2		53.314	386.0	6.6		28.842	8.4	0.2	0.874
MAR	5.460	160.0	13.0		70.980	295.0	18.7		102.102	6.9	0.6	3.276
APR	5.870	187.0	11.7		68.679	329.0	13.1		76.897	8.2	0.4	2.054
MAY	5.210	263.0	2.8		14.588	687.0	6.2		32.302	17.8	0.4	2.084
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	183.0	4.1		ND	338.0	5.6		ND	8.2	0.2	ND
AUG	ND	149.0	5.7		ND	369.0	6.6		ND	1.1	0.9	ND
SEP	3.420	247.0	2.8		9.576	374.0	7.6		25.992	5.1	0.4	1.231
OCT	3.210	199.0	2.9		9.309	365.0	13.0		41.730	8.7	2.1 *	6.580
NOV	3.620	271.0	15.3		55.386	306.0	11.5		41.630	8.7	1.1 *	3.873
DEC	6.400	143.0	21.8		139.520	223.0	12.6		80.640	0.9	0.3	1.856
AVERAGE:	4.667	206.0	9.0		50.221	392.0	10.0		51.789	7.9	0.6	2.559
OBSERVATIONS:	9	11	11			11	11			11	11	
EXCEEDANCES											2	
NO OF SAMPLES		16	18			16	18			16	18	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY		88/09/30	89/01/31
ENFORCING BY-LAWS		88/09/30	
DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE		88/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : INGERSOLL
PLANT : INGERSOLL OLD WPCP
WORKS NUMBER : 110003978
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.40 1000 m3
POPULATION SERVED : 2800

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.000	131.0	8.9		8.900	639.0	21.4		21.400	13.3	0.5	0.530
FEB	0.930	330.0	11.0		10.230	386.0	15.7		14.601	8.4	0.4	0.353
MAR	1.130	160.0	1.8		2.034	295.0	2.6		2.938	6.9	0.3	0.282
APR	1.480	187.0	8.2		12.136	329.0	15.4		22.792	8.2	0.4	0.548
MAY	1.170	263.0	6.1		7.137	687.0	10.2		11.934	17.8	0.4	0.491
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	183.0	1.7		ND	338.0	6.8		ND	8.2	0.4	ND
AUG	ND	149.0	7.7		ND	369.0	10.8		ND	1.1	0.8	ND
SEP	1.080	247.0	2.3		2.484	374.0	10.7		11.556	5.1	0.4	0.464
OCT	1.080	199.0	5.2		5.616	365.0	9.4		10.152	8.7	0.9	0.918
NOV	1.130	271.0	8.6		9.718	306.0	8.9		10.057	8.7	0.7	0.814
DEC	1.880	143.0	8.4		15.792	223.0	8.8		16.544	0.9	0.4	0.752
AVERAGE:	1.209	206.0	6.4		8.227	392.0	11.0		13.553	7.9	0.5	0.572
OBSERVATIONS:	9	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		16	18			16	18			46	18	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KINCARDINE
PLANT : KINCARDINE LAGOON
WORKS NUMBER : 110000864
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.90 1000 m3
POPULATION SERVED : 5467

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.249	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	1.996	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	2.325	73.0	14.2		33.015	77.0	10.7		24.878	4.4	3.3 *	7.673
APR	2.202	135.0	25.6		56.371	110.0	42.5		93.585	7.7	2.2 *	4.844
MAY	1.950	150.0	18.0		35.100	194.0	13.6		26.520	9.1	3.5 *	6.864
JUN	2.090	157.0	14.4		30.096	239.0	12.1		25.289	9.1	4.2 *	8.820
JUL	2.055	77.0	9.6		19.728	134.0	12.4		25.482	6.6	2.1 *	4.213
AUG	2.076	126.0	9.6		19.930	131.0	19.2		39.859	7.3	1.3 *	2.740
SEP	1.971	98.0	12.0		23.652	128.0	20.2		39.814	4.7	1.5 *	2.897
OCT	2.455	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	2.668	150.0	2.3		6.136	138.0	1.8		4.802	7.4	1.7 *	4.482
DEC	3.096	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	2.261	121.0	13.2		28.004	144.0	16.6		35.029	7.0	2.5 *	5.317
OBSERVATIONS:12		8	8			8	8			8	8	
EXCEEDANCES											8	
NO OF SAMPLES		12	13			13	13			12	13	

COMPLIANCE :

CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
START UP DIFFICULTIES BEING REMEDIED	86/05/23	87/11/01	
EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED		87/11/30	88/04/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KINGSVILLE
PLANT : KINGSVILLE LAGOON
WORKS NUMBER : 120001078
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 2.75 1000 m3
POPULATION SERVED : 5200

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WIGLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.032	8.0	9.0			7.0	11.8			1.4	0.7	
FEB	3.640	9.0	12.8			10.0	18.5			1.9	1.2 *	
MAR	4.791	9.0	26.1			12.0	32.9			1.4	1.7 *	
APR	5.386	10.0	40.0			14.0	47.3			0.9	2.2 *	
MAY	3.220	ND	ND			ND	ND			ND	ND	
JUN	3.333	ND	ND			ND	ND			ND	ND	
JUL	3.303	ND	ND			ND	ND			ND	ND	
AUG	3.490	ND	ND			ND	ND			ND	ND	
SEP	3.030	20.0	ND			36.0	ND			2.6	ND	
OCT	2.809	ND	1.7			ND	6.9			ND	0.9	
NOV	3.679	9.0	12.2			23.0	25.6			1.0	0.9	
DEC	5.930	ND	ND			ND	ND			ND	ND	
AVERAGE:	3.804	11.0	17.0		77.337	17.0	23.8		104.844	1.5	1.2 *	5.317
OBSERVATIONS:12		6	6			6	6			6	6	
EXCEEDANCES											3	
NO OF SAMPLES		6	6			6	6			6	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
SEWER SEPARATION UNDERWAY			88/06/30
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW			88/06/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LEAMINGTON
PLANT : LEAMINGTON WPCP
WORKS NUMBER : 120001069
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 19.09 1000 m3
POPULATION SERVED : 12600

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	9.210	270.0	6.8		62.628	411.0	4.5		41.445	4.3	0.7	6.631
FEB	8.000	215.0	15.0		120.000	216.0	13.0		104.000	4.4	0.9	6.880
MAR	8.100	696.0	8.2		66.420	321.0	5.3		42.930	4.1	0.5	4.293
APR	18.010	246.0	5.8		104.458	166.0	5.1		91.851	3.6	0.5	8.465
MAY	10.890	602.0	8.7		94.743	512.0	3.7		40.293	6.4	0.5	5.663
JUN	13.200	154.0	7.4		97.680	164.0	3.2		42.240	4.7	0.9	11.748
JUL	14.570	144.0	7.9		115.103	159.0	7.8		113.646	3.0	0.8	11.073
AUG	23.450	253.0	17.8		417.410	540.0	125.0		2931.250	2.7	0.4	8.442
SEP	20.720	299.0	9.2		190.624	309.0	14.3		296.296	2.6	0.7	15.333
OCT	14.600	213.0	5.4		78.840	288.0	11.5		167.900	3.6	0.3	4.818
NOV	20.890	407.0	4.3		89.827	360.0	9.7		202.633	4.1	1.0	20.681
DEC	15.520	362.0	27.9		433.008	274.0	23.6		366.272	4.0	0.9	13.347
AVERAGE:	14.763	322.0	10.4		155.895	310.0	18.9		370.063	4.0	0.7	9.781
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		110	107			115	116			110	116	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UPGRADING SLUDGE QUALITY	88/06/01		
CONDUCTING TREATABILITY STUDIES	88/06/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LISTOWEL
PLANT : LISTOWEL LAGOON CONT DIS (SUMMER SPRAY)
WORKS NUMBER : 110000409
TREATMENT : AERATED CELL PLUS LAGOON
LAGOON AND SPRAY
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 4.91 1000 m3
POPULATION SERVED : 4554

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CHAPMAN DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	5.089	216.0	ND		ND	238.0	ND		ND	3.3	ND	ND
FEB	4.872	252.0	ND		ND	317.0	ND		ND	3.6	ND	ND
MAR	6.878	310.0	17.5		120.365	350.0	24.3		167.135	4.6	1.8 *	12.587
APR	6.258	247.0	18.5		115.773	127.0	30.0		187.740	7.0	0.6	3.943
MAY	4.411	128.0	ND		ND	161.0	ND		ND	4.3	ND	ND
JUN	4.769	242.0	ND		ND	190.0	ND		ND	6.9	ND	ND
JUL	4.147	240.0	ND		ND	343.0	ND		ND	4.9	ND	ND
AUG	3.848	842.0	ND		ND	808.0	ND		ND	7.3	ND	ND
SEP	3.696	295.0	ND		ND	246.0	ND		ND	4.7	ND	ND
OCT	4.115	294.0	ND		ND	218.0	ND		ND	3.9	ND	ND
NOV	5.660	303.0	4.8		27.168	169.0	5.6		31.696	3.9	0.7	3.792
DEC	6.241	202.0	7.1		44.311	215.0	7.9		49.304	5.0	0.6	3.932
AVERAGE:	4.999	298.0	12.0		76.904	282.0	17.0		108.969	5.0	0.9	6.064
OBSERVATIONS:	12	12	4			12	4			12	4	
EXCEEDANCES											1	
NO OF SAMPLES		25	42			25	42			25	42	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LOBO
PLANT : KILWORTH HEIGHTS WPCP
WORKS NUMBER : 110003362
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.26 1000 m3
POPULATION SERVED : 210

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.065	30.0	1.2		0.078	96.0	1.9		0.123	2.0	0.4	0.029
FEB	0.061	63.0	3.2		0.195	470.0	3.5		0.213	4.5	0.5	0.029
MAR	0.066	40.0	1.9		0.125	413.0	2.1		0.139	5.0	0.4	0.028
APR	0.126	41.0	1.0		0.126	225.0	7.0		0.882	2.6	0.6	0.069
MAY	0.348	35.0	1.8		0.626	59.0	1.1		0.383	0.9	0.2	0.080
JUN	0.348	52.0	1.6		0.557	331.0	1.9		0.661	4.6	0.3	0.115
JUL	0.250	18.0	2.7		0.675	66.0	2.4		0.600	2.7	0.2	0.058
AUG	0.225	19.0	0.6		0.135	229.0	2.8		0.630	2.7	0.3	0.065
SEP	0.130	64.0	0.7		0.091	373.0	1.4		0.182	8.3	0.3	0.033
OCT	0.126	55.0	0.1		0.013	167.0	1.0		0.126	5.4	0.1	0.018
NOV	0.081	32.0	0.4		0.032	147.0	0.6		0.049	4.1	0.2	0.013
DEC	0.105	32.0	0.7		0.073	106.0	2.2		0.231	4.2	0.2	0.022
AVERAGE:	0.161	40.0	1.3		0.227	224.0	2.3		0.352	3.9	0.3	0.047
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			24	24			24	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONDON
PLANT : ADELAIDE WPCP
WORKS NUMBER : 120000872
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 35678

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	18.566	127.0	3.0		55.698	210.0	5.0		92.830	5.1	0.6	11.140
FEB	16.708	110.0	2.0		33.416	209.0	5.0		83.540	5.2	0.6	10.025
MAR	20.098	115.0	2.0		40.196	182.0	6.0		120.588	4.8	0.3	6.029
APR	21.512	137.0	3.0		64.536	226.0	6.0		129.072	4.7	0.4	8.605
MAY	17.864	125.0	4.0		71.456	170.0	4.0		71.456	4.5	0.4	7.146
JUN	15.792	121.0	4.0		63.168	176.0	6.0		94.752	6.7	0.8	12.634
JUL	16.333	158.0	3.0		48.999	337.0	5.0		81.665	6.2	0.7	11.433
AUG	18.214	124.0	3.0		54.642	164.0	5.0		91.070	6.1	0.6	10.928
SEP	18.023	181.0	3.0		54.069	190.0	4.0		72.092	7.4	0.5	9.011
OCT	17.106	203.0	3.0		51.318	219.0	6.0		102.636	8.4	0.7	11.974
NOV	17.959	159.0	8.0		143.672	188.0	8.0		143.672	6.9	0.7	12.571
DEC	21.172	132.0	3.0		63.516	147.0	7.0		148.204	4.5	0.6	12.703
AVERAGE:	18.279	141.0	3.4		62.057	202.0	5.6		102.631	5.9	0.6	10.350
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		148	148			231	229			224	224	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONDON
PLANT : GREENWAY WPCP
WORKS NUMBER : 120000863
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 124.33 1000 m3
POPULATION SERVED : 168274

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	104.111	229.0	5.0		520.555	150.0	14.0		1457.554	6.8	1.1 *	114.522
FEB	98.479	238.0	5.0		492.395	181.0	13.0		1280.227	6.5	0.8	78.783
MAR	119.120	244.0	5.0		595.600	210.0	12.0		1429.440	7.0	0.6	71.472
APR	128.012	207.0	5.0		640.060	206.0	13.0		1664.156	7.6	0.8	102.410
MAY	91.567	388.0	4.0		366.268	288.0	15.0		1373.505	9.7	0.6	54.940
JUN	98.439	218.0	8.0		787.512	315.0	13.0		1279.707	9.8	0.7	68.907
JUL	99.699	233.0	5.0		498.495	200.0	9.0		897.291	6.7	0.6	59.819
AUG	103.856	245.0	4.0		415.424	191.0	10.0		1038.560	5.7	0.5	51.928
SEP	116.942	238.0	4.0		467.768	251.0	11.0		1286.362	9.0	0.8	93.554
OCT	110.150	253.0	4.0		440.600	251.0	12.0		1321.800	9.1	0.7	77.105
NOV	119.441	244.0	5.0		597.205	178.0	13.0		1552.733	8.1	0.9	107.497
DEC	139.676	225.0	4.0		558.704	179.0	13.0		1815.788	5.6	0.4	55.870
AVERAGE:	110.791	247.0	4.8		531.716	217.0	12.3		1366.427	7.6	0.7	78.067
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		164	165			325	329			231	230	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONDON
PLANT : OXFORD WPCP
WORKS NUMBER : 120000854
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 5.45 1000 m3
POPULATION SERVED : 13733

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	4.078	136.0	3.0		12.234	141.0	7.0		28.546	6.4	0.5	2.039
FEB	3.810	119.0	3.0		11.430	144.0	8.0		30.480	7.5	0.6	2.286
MAR	2.246	133.0	5.0		11.230	190.0	10.0		22.460	6.5	0.4	0.898
APR	4.664	114.0	4.0		18.656	165.0	7.0		32.648	6.4	0.5	2.332
MAY	4.032	160.0	3.0		12.096	176.0	4.0		16.128	6.4	0.5	2.016
JUN	3.649	159.0	6.0		21.894	199.0	11.0		40.139	9.6	0.7	2.554
JUL	3.442	156.0	4.0		13.768	210.0	5.0		17.210	7.8	0.6	2.065
AUG	3.640	166.0	3.0		10.920	205.0	5.0		18.200	10.2	1.2 *	4.368
SEP	3.289	198.0	3.0		9.867	202.0	4.0		13.156	9.6	0.9	2.960
OCT	3.409	131.0	3.0		10.227	189.0	8.0		27.272	8.4	0.6	2.045
NOV	4.268	141.0	4.0		17.072	161.0	11.0		46.948	9.1	0.9	3.841
DEC	3.926	121.0	5.0		19.630	141.0	9.0		35.334	6.5	0.6	2.356
AVERAGE:	3.704	144.0	3.8		14.085	177.0	7.4		27.377	7.9	0.7	2.480
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		118	135			164	188			161	184	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONDON
PLANT : POTTERSBURG WPCP
WORKS NUMBER : 120000836
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 22.04 1000 m3
POPULATION SERVED : 25653

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	16.823	94.0	3.0		50.469	103.0	3.0		50.469	4.1	0.6	10.094
FEB	14.901	95.0	3.0		44.703	116.0	3.0		44.703	4.8	0.6	8.941
MAR	17.433	89.0	2.0		34.866	106.0	4.0		69.732	3.9	0.4	6.973
APR	18.897	80.0	3.0		56.691	89.0	5.0		94.485	3.6	0.5	9.448
MAY	14.091	136.0	3.0		42.273	111.0	5.0		70.455	5.0	0.5	7.045
JUN	13.668	126.0	5.0		68.340	126.0	4.0		54.672	5.9	0.9	12.301
JUL	12.818	163.0	3.0		38.454	149.0	5.0		64.090	6.0	0.8	10.254
AUG	13.526	138.0	4.0		54.104	131.0	6.0		81.156	6.5	0.7	9.468
SEP	16.140	137.0	4.0		64.560	134.0	5.0		80.700	7.5	0.7	11.298
OCT	16.250	298.0	3.0		48.750	228.0	8.0		130.000	8.3	0.7	11.375
NOV	20.501	141.0	3.0		61.503	127.0	9.0		184.509	6.1	0.6	12.301
DEC	24.479	96.0	4.0		97.916	87.0	7.0		171.353	3.8	0.4	9.792
AVERAGE:	16.627	133.0	3.3		55.219	126.0	5.3		91.360	5.5	0.6	9.941
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		129	151			182	233			197	226	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONDON
PLANT : VAUXHALL WPCP
WORKS NUMBER : 120000845
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 20.91 1000 m3
POPULATION SERVED : 22981

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	17.645	245.0	3.0		52.935	191.0	6.0		105.870	5.3	0.5	8.822
FEB	17.554	251.0	5.0		87.770	187.0	10.0		175.540	4.8	0.5	8.777
MAR	18.950	199.0	3.0		56.850	219.0	8.0		151.600	4.7	0.4	7.580
APR	ND	198.0	5.0		ND	173.0	8.0		ND	3.9	0.6	ND
MAY	ND	364.0	4.0		ND	209.0	5.0		ND	4.8	0.4	ND
JUN	16.023	239.0	5.0		80.115	200.0	9.0		144.207	5.5	0.5	8.011
JUL	16.654	28.0	5.0		83.270	23.0	9.0		149.886	5.2	0.7	11.658
AUG	17.333	361.0	5.0		86.665	257.0	9.0		155.997	7.4	0.7	12.133
SEP	16.005	353.0	5.0		80.025	292.0	7.0		112.035	8.1	0.6	9.603
OCT	16.923	155.0	3.0		50.769	131.0	10.0		169.230	6.3	0.4	6.769
NOV	18.444	247.0	3.0		55.332	200.0	9.0		165.996	7.3	0.5	9.222
DEC	18.190	189.0	3.0		54.570	244.0	8.0		145.520	5.3	0.6	10.914
AVERAGE:	17.372	236.0	4.1		68.830	194.0	8.2		147.588	5.7	0.5	9.349
OBSERVATIONS:	10	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		128	151			200	233			196	225	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LUCAN
PLANT : LUCAN LAGOON
WORKS NUMBER : 110000855
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.29 1000 m3
POPULATION SERVED : 1563

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LITTLE AUSABLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.696	153.0	ND			218.0	ND			8.0	ND	
FEB	0.625	137.0	ND			184.0	ND			9.8	ND	
MAR	1.088	25.0	ND			61.0	ND			2.3	ND	
APR	0.941	26.0	20.5			42.0	41.8			1.8	0.5	
MAY	0.495	47.0	ND			59.0	ND			4.2	ND	
JUN	0.571	212.0	ND			148.0	ND			7.6	ND	
JUL	0.480	81.0	ND			93.0	ND			4.7	ND	
AUG	0.570	77.0	ND			72.0	ND			4.2	ND	
SEP	0.536	145.0	ND			196.0	ND			6.9	ND	
OCT	0.920	174.0	6.2			166.0	14.7			7.1	0.4	
NOV	1.038	ND	ND			ND	ND			ND	ND	
DEC	1.422	110.0	ND			75.0	ND			5.6	ND	
AVERAGE:	0.782	108.0	13.4		12.497	120.0	28.3		26.429	5.7	0.4	0.414
OBSERVATIONS:12		11	2			11	2			11	2	
EXCEEDANCES												
NO OF SAMPLES		11	7			11	7			11	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MAIDSTONE
PLANT : BELLE RIVER-MAIDSTONE WPCP
WORKS NUMBER : 110002078
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 7448

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ST.CLAIR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	5.831	69.0	5.0		29.155	88.0	12.2		71.138	3.1	0.7	4.315
FEB	5.462	71.0	7.7		42.057	111.0	10.8		58.990	2.9	0.3	1.748
MAR	6.020	66.0	4.7		28.294	87.0	12.2		73.444	1.8	0.1	0.722
APR	6.471	45.0	4.4		28.472	90.0	14.0		90.594	2.7	0.4	2.847
MAY	5.168	91.0	4.3		22.222	98.0	11.1		57.365	4.4	0.6	2.997
JUN	5.422	71.0	4.8		26.026	112.0	10.3		55.847	4.2	1.0	5.585
JUL	5.515	52.0	5.3		29.229	103.0	11.2		61.768	3.5	0.7	3.695
AUG	5.369	56.0	6.7		35.972	89.0	9.3		49.932	3.1	0.5	2.470
SEP	5.499	74.0	5.0		27.495	118.0	10.8		59.389	4.1	0.9	4.894
OCT	4.674	116.0	3.1		14.489	174.0	10.8		50.479	9.7	1.3 *	6.216
NOV	5.166	82.0	3.2		16.531	185.0	7.4		38.228	6.5	0.7	3.461
DEC	6.597	49.0	4.5		29.687	80.0	13.5		89.059	3.1	1.0	6.267
AVERAGE:	5.599	70.0	4.9		27.469	111.0	11.1		63.019	4.1	0.7	3.768
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		66	55			144	138			32	36	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS	89/03/01	90/03/31	90/06/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MARKDALE
PLANT : MARKDALE LAGOON
WORKS NUMBER : 110000418
TREATMENT : AERATED LAGOON
PHOSPHORUS REMOVAL-CONTINUOUS
EXFILTRATION LAGOON
DESIGN CAPACITY : 1.12 1000 m3
POPULATION SERVED : 1210

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.788	85.0	ND		ND	72.0	ND		ND	8.8	ND	ND
FEB	0.853	127.0	ND		ND	141.0	ND		ND	4.6	ND	ND
MAR	0.804	149.0	ND		ND	291.0	ND		ND	5.3	ND	ND
APR	0.669	216.0	ND		ND	295.0	ND		ND	6.0	ND	ND
MAY	0.499	235.0	ND		ND	420.0	ND		ND	10.1	ND	ND
JUN	0.536	256.0	ND		ND	424.0	ND		ND	7.0	ND	ND
JUL	0.542	363.0	ND		ND	447.0	ND		ND	13.3	ND	ND
AUG	0.470	591.0	ND		ND	463.0	ND		ND	9.2	ND	ND
SEP	0.460	749.0	ND		ND	982.0	ND		ND	26.0	ND	ND
OCT	0.450	296.0	ND		ND	412.0	ND		ND	12.3	ND	ND
NOV	0.460	79.0	ND		ND	75.0	ND		ND	4.6	ND	ND
DEC	0.520	270.0	ND		ND	666.0	ND		ND	10.3	ND	ND
AVERAGE:	0.588	285.0	0.0		0.000	391.0	0.0		0.000	9.8	0.0	0.000
OBSERVATIONS:12		12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		12	0			12	0			12	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	MC GILLIVRAY
PLANT	PARKHILL LAGOON
WORKS NUMBER	110002461
TREATMENT	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY	1.10 1000 m3
POPULATION SERVED	1375

REGION	SOUTHWEST
DISTRICT	LONDON NORTH
OPERATING AUTHORITY	MINISTRY
WATERCOURSE	PARKHILL CREEK
MAJOR BASIN	GREAT LAKES
MINOR BASIN	LAKE HURON
IJC DESIGNATION	INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.681	128.0	ND			171.0	ND			8.6	ND	
FEB	1.305	144.0	ND			198.0	ND			7.8	ND	
MAR	1.026	79.0	ND			117.0	ND			4.1	ND	
APR	0.917	86.0	18.5			108.0	36.8			4.7	0.8	
MAY	0.487	166.0	ND			180.0	ND			9.6	ND	
JUN	0.567	179.0	ND			162.0	ND			6.2	ND	
JUL	0.516	146.0	ND			227.0	ND			8.7	ND	
AUG	0.516	115.0	ND			88.0	ND			7.1	ND	
SEP	0.592	165.0	ND			161.0	ND			6.3	ND	
OCT	0.582	160.0	3.6			143.0	9.0			8.2	0.3	
NOV	0.624	112.0	ND			113.0	ND			5.8	ND	
DEC	0.757	152.0	ND			103.0	ND			8.0	ND	
AVERAGE:	0.714	136.0	11.1		9.530	148.0	22.9		19.492	7.1	0.6	0.481
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		12	7			12	7			12	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/09/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MEAFORD
PLANT : MEAFORD WPCP
WORKS NUMBER : 110000445
TREATMENT : HIGH RATE

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 3.90 1000 m3
POPULATION SERVED : 4159

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.862	42.0	10.8		30.910	102.0	7.2		20.606	3.3	1.9	5.409
FEB	2.714	43.0	ND		ND	71.0	ND		ND	3.1	ND	ND
MAR	3.793	47.0	15.4		58.412	59.0	8.5		32.241	2.9	1.8	6.865
APR	3.053	48.0	22.2		67.777	61.0	14.1		43.047	2.8	2.5	7.571
MAY	2.653	58.0	14.9		39.530	87.0	17.2		45.632	3.4	2.7	7.084
JUN	2.805	57.0	8.0		22.440	133.0	5.3		14.867	5.4	2.6	7.349
JUL	2.650	23.0	7.3		19.345	54.0	8.9		23.585	2.5	2.0	5.247
AUG	2.592	49.0	5.9		15.293	104.0	2.6		6.739	5.7	2.9	7.491
SEP	2.651	52.0	10.0		26.510	88.0	8.9		23.594	4.3	3.9	10.286
OCT	2.732	68.0	16.0		43.712	116.0	8.3		22.676	3.8	3.6	9.835
NOV	3.050	84.0	11.9		36.295	100.0	7.5		22.875	5.1	3.1	9.577
DEC	2.918	46.0	13.9		40.560	52.0	5.1		14.882	3.0	1.6	4.640
AVERAGE:	2.873	51.0	12.4		36.435	86.0	8.5		24.613	3.8	2.6	7.396
OBSERVATIONS:	12	12	11			12	11			12	11	
EXCEEDANCES												
NO OF SAMPLES		23	19			23	19			24	19	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: MILDMAY
PLANT	: MILDMAY WPCP
WORKS NUMBER	: 110002194
TREATMENT	: EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY	: 0.96 1000 m3
POPULATION SERVED	: 885

REGION	: SOUTHWEST
DISTRICT	: OWEN SOUND
OPERATING AUTHORITY	: MINISTRY
WATERCOURSE	: OTTER CREEK
MAJOR BASIN	: GREAT LAKES
MINOR BASIN	: LAKE HURON
IJC DESIGNATION	: INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.397	130.0	4.2		1.667	171.0	7.6		3.017	7.8	0.7	0.282
FEB	0.355	168.0	3.6		1.278	252.0	5.8		2.059	8.3	0.4	0.153
MAR	0.508	77.0	3.3		1.676	121.0	2.9		1.473	5.0	0.3	0.168
APR	0.453	130.0	2.2		0.997	209.0	7.4		3.352	7.9	0.6	0.267
MAY	0.362	126.0	1.8		0.652	212.0	5.5		1.991	8.0	0.7	0.246
JUN	0.408	99.0	1.6		0.653	171.0	4.6		1.877	7.5	0.7	0.269
JUL	0.419	86.0	1.6		0.670	204.0	2.8		1.173	6.8	0.5	0.226
AUG	0.437	56.0	1.6		0.699	105.0	3.4		1.486	4.8	0.7	0.293
SEP	0.410	114.0	1.6		0.656	187.0	5.3		2.173	9.8	0.8	0.324
OCT	0.422	151.0	2.4		1.013	210.0	1.8		0.760	7.4	0.4	0.181
NOV	0.546	60.0	3.7		2.020	103.0	8.2		4.477	3.8	0.6	0.349
DEC	0.604	133.0	4.9		2.960	76.0	10.5		6.342	3.8	0.7	0.405
AVERAGE:	0.443	111.0	2.7		1.245	168.0	5.5		2.515	6.7	0.6	0.264
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	25	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MILVERTON
PLANT : MILVERTON LAGOON
WORKS NUMBER : 110001079
TREATMENT : CONVENTIONAL LAGOON SEASONAL
AERATED CELL PLUS LAGOON
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 1.01 1000 m3
POPULATION SERVED : 1484

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOYLE DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.655	196.0	ND			213.0	ND			10.0	ND	
FEB	0.549	158.0	ND			246.0	ND			8.8	ND	
MAR	0.862	101.0	ND			170.0	ND			7.5	ND	
APR	0.645	120.0	ND			143.0	ND			8.0	ND	
MAY	0.528	154.0	ND			173.0	ND			9.1	ND	
JUN	0.497	162.0	ND			209.0	ND			5.3	ND	
JUL	0.694	78.0	ND			110.0	ND			5.1	ND	
AUG	0.584	149.0	ND			160.0	ND			7.2	ND	
SEP	0.563	284.0	ND			224.0	ND			10.8	ND	
OCT	0.661	ND	ND			ND	ND			ND	ND	
NOV	0.836	151.0	5.5			163.0	19.0			8.5	0.3	
DEC	0.749	94.0	ND			80.0	ND			6.1	ND	
AVERAGE:	0.652	150.0	5.5		4.598	172.0	19.0		15.884	7.9	0.3	0.268
OBSERVATIONS:12		11	1			11	1			11	1	
EXCEEDANCES												
NO OF SAMPLES		21	4			21	4			21	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MITCHELL
PLANT : MITCHELL LAGOON
WORKS NUMBER : 110000472
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.56 1000 m3
POPULATION SERVED : 2880

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.848	422.0	ND			765.0	ND			14.5	ND	
FEB	1.543	597.0	ND			666.0	ND			16.4	ND	
MAR	3.210	396.0	ND			309.0	ND			8.1	ND	
APR	2.738	904.0	24.8			61.0	89.8			4.6	0.6	
MAY	1.509	1732.0	ND			860.0	ND			30.8	ND	
JUN	1.460	1485.0	ND			743.0	ND			26.6	ND	
JUL	1.537	467.0	ND			520.0	ND			12.3	ND	
AUG	1.504	620.0	ND			452.0	ND			21.2	ND	
SEP	1.490	1069.0	ND			616.0	ND			24.8	ND	
OCT	1.756	ND	ND			ND	ND			ND	ND	
NOV	2.490	269.0	ND			222.0	ND			9.0	ND	
DEC	3.310	595.0	ND			366.0	ND			11.6	ND	
AVERAGE:	2.033	778.0	24.8		67.902	507.0	89.8 *		245.872	16.4	0.6	1.615
OBSERVATIONS:	12	11	1			11	1			11	1	
EXCEEDANCES												
NO OF SAMPLES		30	4			30	4			30	4	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING			
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED			
REMEDIAL MEASURES BEING EVALUATED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOORE
PLANT : BRIGDEN P.V. LAGOON
WORKS NUMBER : 110002023
TREATMENT : CONVENTIONAL LAGOON ANNUAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.33 1000 m3
POPULATION SERVED : 683

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BEAR CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.186	212.0	ND			118.0	ND			10.4	ND	
FEB	0.182	ND	ND			ND	ND			ND	ND	
MAR	0.188	157.0	ND			181.0	ND			9.6	ND	
APR	0.208	134.0	ND			135.0	ND			8.1	ND	
MAY	0.165	176.0	3.6			150.0	6.5			9.9	0.2	
JUN	0.175	178.0	ND			196.0	ND			9.5	ND	
JUL	0.155	177.0	ND			228.0	ND			11.8	ND	
AUG	0.177	176.0	ND			122.0	ND			5.5	ND	
SEP	0.171	728.0	ND			96.0	ND			10.7	ND	
OCT	0.287	175.0	2.9			123.0	2.3			8.6	0.3	
NOV	0.226	243.0	ND			153.0	ND			9.1	ND	
DEC	0.254	190.0	ND			171.0	ND			9.6	ND	
AVERAGE:	0.198	232.0	3.3		0.713	152.0	4.4		0.867	9.3	0.2	0.055
OBSERVATIONS:	12	11	2			11	2			11	2	
EXCEEDANCES												
NO OF SAMPLES		17	9			17	9			17	9	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOORE
PLANT : CORUNNA P.V. WPCP
WORKS NUMBER : 110000481
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 5590

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST. CLAIR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.193	132.0	7.0		15.351	155.0	9.2		20.176	7.4	0.5	0.987
FEB	2.042	120.0	18.0		36.756	198.0	12.2		24.912	7.8	0.5	0.919
MAR	2.052	163.0	8.5		17.442	213.0	10.8		22.162	8.3	0.5	1.047
APR	2.297	94.0	5.0		11.485	108.0	5.6		12.863	7.8	0.3	0.689
MAY	2.020	192.0	12.1		24.442	231.0	7.1		14.342	9.8	0.5	0.949
JUN	2.269	124.0	6.6		14.975	128.0	5.9		13.387	0.7	0.5	1.135
JUL	2.381	110.0	3.0		7.143	111.0	8.0		19.048	6.2	0.3	0.714
AUG	2.106	86.0	4.3		9.056	40.0	2.9		6.107	5.7	0.3	0.569
SEP	2.097	131.0	4.1		8.598	149.0	4.7		9.856	7.8	0.4	0.839
OCT	2.026	171.0	4.6		9.320	210.0	6.2		12.561	9.4	0.4	0.790
NOV	2.123	98.0	4.1		8.704	89.0	6.7		14.224	5.9	0.3	0.679
DEC	2.552	86.0	6.5		16.588	68.0	10.1		25.775	7.5	0.2	0.587
AVERAGE:	2.180	126.0	7.0		14.988	142.0	7.5		16.284	7.0	0.4	0.825
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	23			22	23			22	279	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOORE
PLANT : COURTRIGHT WPCP
WORKS NUMBER : 110001818
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 1480

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST CLAIR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.506	130.0	8.2		4.149	145.0	14.1		7.135	6.3	0.5	0.253
FEB	0.629	ND	ND		ND	ND	ND		ND	ND	0.4	0.233
MAR	0.586	191.0	4.9		2.871	332.0	20.4		11.954	7.2	0.8	0.451
APR	0.624	123.0	5.7		3.557	154.0	12.7		7.925	7.2	0.3	0.187
MAY	0.441	214.0	3.6		1.588	269.0	5.4		2.381	6.9	0.4	0.159
JUN	0.403	113.0	7.5		3.023	111.0	5.5		2.217	6.4	0.2	0.097
JUL	0.671	104.0	21.0		14.091	143.0	10.0		6.710	7.2	0.4	0.248
AUG	0.493	161.0	14.1		6.951	236.0	8.7		4.289	7.6	0.5	0.222
SEP	0.567	126.0	19.1		10.830	19.0	20.3		11.510	7.4	0.5	0.266
OCT	1.026	108.0	9.9		10.157	127.0	19.3		19.802	7.6	0.7	0.667
NOV	1.250	142.0	10.2		12.750	173.0	19.1		23.875	8.8	0.3	0.375
DEC	1.065	125.0	12.9		13.739	124.0	17.4		18.531	8.1	0.2	0.256
AVERAGE:	0.688	140.0	10.6		7.610	167.0	13.9		10.575	7.3	0.4	0.285
OBSERVATIONS:	12	11	11			11	11			11	12	
EXCEEDANCES												
NO OF SAMPLES		19	21			19	21			20	247	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORMANBY
PLANT : NEUSTADT LAGOON
WORKS NUMBER : 110002443
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SOUTH SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.41 1000 m3
POPULATION SERVED : 400

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.132	191.0	ND			230.0	ND			11.7	ND	
FEB	0.112	146.0	ND			228.0	ND			10.4	ND	
MAR	0.182	106.0	ND			142.0	ND			5.3	ND	
APR	0.149	80.0	ND			139.0	ND			7.5	ND	
MAY	0.098	158.0	ND			200.0	ND			8.9	ND	
JUN	0.084	196.0	ND			294.0	ND			12.0	ND	
JUL	0.089	129.0	ND			197.0	ND			10.8	ND	
AUG	0.098	152.0	ND			225.0	ND			13.0	ND	
SEP	0.085	145.0	ND			210.0	ND			9.7	ND	
OCT	0.102	163.0	ND			231.0	ND			10.3	ND	
NOV	0.181	58.0	0.9			81.0	7.4			4.6	0.7	
DEC	0.187	94.0	ND			115.0	ND			5.7	ND	
AVERAGE:	0.125	135.0	0.9		0.163	191.0	7.4		1.339	9.2	0.7	0.121
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		25	10			25	10			25	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: NORWICH	REGION	: SOUTHWEST
PLANT	: NORWICH LAGOON	DISTRICT	: LONDON NORTH
WORKS NUMBER	: 110001480	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: BIG OTTER CREEK
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ERIE
DESIGN CAPACITY	: 0.99 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 2156		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.849	121.0	ND			226.0	ND			4.6	ND	
FEB	0.667	120.0	ND			203.0	ND			6.9	ND	
MAR	0.925	230.0	ND			348.0	ND			5.1	ND	
APR	1.156	168.0	29.9			395.0	29.2			4.6	0.5	
MAY	0.628	222.0	36.0			335.0	29.2			9.8	0.5	
JUN	0.585	262.0	ND			295.0	ND			13.2	ND	
JUL	0.538	253.0	ND			170.0	ND			8.7	ND	
AUG	0.576	177.0	ND			105.0	ND			10.0	ND	
SEP	0.567	254.0	ND			293.0	ND			10.3	ND	
OCT	0.571	ND	ND			ND	ND			ND	ND	
NOV	0.719	230.0	9.1			422.0	5.9			8.0	0.4	
DEC	0.999	186.0	ND			307.0	ND			6.2	ND	
AVERAGE:	0.732	202.0	25.0		21.238	282.0	21.4		18.778	7.9	0.4	0.373
OBSERVATIONS:	12	11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		11	3			11	3			11	3	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OIL SPRINGS
PLANT : OIL SPRINGS LAGOON
WORKS NUMBER : 110001998
TREATMENT : CONVENTIONAL LAGOON ANNUAL PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BLACK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.27 1000 m3
POPULATION SERVED : 609

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.169	138.0	ND			111.0	ND			8.5	ND	
FEB	0.157	171.0	ND			243.0	ND			9.7	ND	
MAR	0.182	132.0	ND			153.0	ND			8.8	ND	
APR	0.186	102.0	20.0			103.0	41.4			6.2	0.4	
MAY	0.155	156.0	25.7			111.0	172.1			10.3	1.0	
JUN	0.153	142.0	ND			105.0	ND			8.3	ND	
JUL	0.147	137.0	ND			70.0	ND			7.6	ND	
AUG	0.152	160.0	ND			122.0	ND			7.7	ND	
SEP	0.158	130.0	ND			85.0	ND			8.5	ND	
OCT	0.178	109.0	3.8			99.0	12.1			7.6	0.3	
NOV	0.186	97.0	ND			72.0	ND			8.1	ND	
DEC	0.220	102.0	ND			83.0	ND			7.0	ND	
AVERAGE:	0.170	131.0	16.5		2.793	113.0	75.2 *		12.176	8.2	0.6	0.097
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		23	3			23	3			23	3	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - NO	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OWEN SOUND
PLANT : OWEN SOUND WPCP
WORKS NUMBER : 110000551
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 24.54 1000 m3
POPULATION SERVED : 20000

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	21.732	73.0	37.3	49	810.604	98.0	18.2	81	395.522	3.8	0.7	15.430
FEB	14.893	56.0	32.3	42	481.044	97.0	23.6	76	351.475	3.6	0.7	10.872
MAR	21.852	62.0	23.8	62	520.078	94.0	18.9	80	413.003	3.0	0.6	12.674
APR	17.593	69.0	13.4	81	235.746	92.0	19.7	79	346.582	2.9	0.8	13.195
MAY	9.356	78.0	25.6	67	239.514	120.0	21.8	82	203.961	4.6	0.5	4.959
JUN	9.525	100.0	22.1	78	210.503	119.0	25.3	79	240.983	3.8	0.5	4.572
JUL	9.454	50.0	19.2	62	181.517	107.0	20.5	81	193.807	4.7	0.7	6.618
AUG	10.728	112.0	26.8	76	287.510	130.0	21.9	83	234.943	5.5	0.7	7.831
SEP	11.019	68.0	22.4	67	246.826	117.0	24.2	79	266.660	4.8	0.8	8.264
OCT	14.453	71.0	22.1	69	319.411	132.0	19.4	85	280.388	4.1	0.6	8.383
NOV	18.149	83.0	55.0	34	998.195	116.0	18.7	84	339.386	4.4	0.6	10.708
DEC	17.692	73.0	36.0	51	636.912	102.0	21.7	79	383.916	3.3	1.2 *	20.877
AVERAGE:	14.704	75.0	28.0	62	430.655	110.0	21.2	81	304.219	4.0	0.7	10.365
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		24	24			255	255			24	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING			88/01/31
PROGRAM UNDER REVIEW			88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PAISLEY
PLANT : PAISLEY WPCP
WORKS NUMBER : 110001907
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.70 1000 m3
POPULATION SERVED : 653

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.310	145.0	7.9		2.449	204.0	6.9		2.139	6.2	1.8 *	0.567
FEB	0.295	76.0	4.0		1.180	87.0	12.8		3.776	3.9	1.9 *	0.569
MAR	0.406	76.0	9.0		3.654	113.0	17.4		7.064	5.4	2.6 *	1.035
APR	0.329	74.0	6.6		2.171	80.0	9.3		3.060	4.6	2.6 *	0.849
MAY	0.281	65.0	6.0		1.686	54.0	5.0		1.405	5.4	3.5 *	0.984
JUN	0.275	63.0	4.0		1.100	76.0	6.0		1.650	4.9	3.8 *	1.040
JUL	0.297	58.0	2.0		0.594	77.0	4.0		1.188	4.7	1.5 *	0.443
AUG	0.312	43.0	1.0		0.312	67.0	7.0		2.184	3.5	0.6	0.197
SEP	0.317	27.0	1.0		0.317	36.0	6.0		1.902	4.1	0.6	0.203
OCT	0.354	77.0	2.0		0.708	114.0	8.0		2.832	3.9	0.6	0.212
NOV	0.394	92.0	6.0		2.364	102.0	13.0		5.122	6.0	0.8	0.307
DEC	0.416	77.0	6.0		2.496	87.0	13.0		5.408	4.9	0.8	0.312
AVERAGE:	0.332	73.0	4.6		1.586	91.0	9.0		3.144	4.8	1.8 *	0.560
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											7	
NO OF SAMPLES		23	23			23	23			23	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED	86/01/01	87/06/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PETROLIA
PLANT : PETROLIA WPCP + LAGOON
WORKS NUMBER : 110000579
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 3.18 1000 m3
POPULATION SERVED : 4186

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BEAR CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.598	92.0	4.4		7.031	82.0	7.3		11.665	6.4	0.3	0.543
FEB	1.062	126.0	11.7		12.425	114.0	10.2		10.832	8.5	0.5	0.478
MAR	1.111	81.0	0.9		1.000	44.0	8.3		9.221	0.3	0.0	0.033
APR	1.163	22.0	4.5		5.234	86.0	15.1		17.561	4.4	0.6	0.733
MAY	1.203	168.0	1.9		2.286	92.0	12.6		15.158	9.0	0.4	0.493
JUN	1.240	151.0	2.3		2.852	89.0	11.5		14.260	8.0	0.4	0.496
JUL	1.281	174.0	2.1		2.690	75.0	9.5		12.169	9.3	0.4	0.448
AUG	1.321	143.0	1.3		1.717	87.0	10.0		13.210	10.3	0.3	0.449
SEP	1.360	134.0	1.4		1.904	74.0	10.5		14.280	7.3	0.4	0.476
OCT	1.407	162.0	0.7		0.985	78.0	11.1		15.618	7.6	0.4	0.492
NOV	1.454	147.0	0.8		1.163	78.0	9.6		13.958	8.4	0.3	0.407
DEC	1.507	140.0	1.0		1.507	74.0	10.1		15.221	6.8	0.2	0.332
AVERAGE:	1.309	128.0	2.8		3.399	81.0	10.5		13.596	7.2	0.3	0.448
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		54	52			204	205			54	71	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PLYMPTON
PLANT : WYOMING WPCP
WORKS NUMBER : 110002489
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 1.12 1000 m3
POPULATION SERVED : 1740

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : STONEHOUSE DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.495	72.0	8.4		4.158	80.0	13.0		6.435	6.7	0.3	0.139
FEB	0.465	179.0	16.1		7.487	117.0	10.0		4.650	10.6	0.5	0.223
MAR	0.496	114.0	11.5		5.704	106.0	13.7		6.795	9.2	0.3	0.134
APR	0.537	99.0	5.9		3.168	89.0	9.7		5.209	6.7	0.5	0.263
MAY	0.573	145.0	0.7		0.401	58.0	18.3		10.486	9.7	0.1	0.069
JUN	0.648	173.0	2.6		1.685	87.0	9.8		6.350	11.6	0.2	0.136
JUL	0.709	200.0	1.6		1.134	74.0	9.1		6.452	10.8	0.1	0.071
AUG	0.860	154.0	1.6		1.376	70.0	9.0		7.740	9.9	1.7 *	1.471
SEP	1.032	99.0	1.0		1.032	69.0	9.0		9.288	11.0	0.2	0.186
OCT	1.086	167.0	1.6		1.738	64.0	9.3		10.100	11.1	0.2	0.185
NOV	1.120	107.0	18.7		20.944	53.0	10.3		11.536	7.9	0.9	1.019
DEC	1.156	74.0	10.9		12.600	61.0	10.4		12.022	6.7	0.6	0.659
AVERAGE:	0.765	132.0	6.7		5.119	77.0	11.0		8.089	9.3	0.5	0.380
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		25	24			187	187			25	42	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			88/09/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : POINT EDWARD
PLANT : POINT EDWARD WPCP
WORKS NUMBER : 110000597
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.59 1000 m3
POPULATION SERVED : 2453

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST. CLAIR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.300	201.0	47.5	76	109.250	676.0	35.1	95	80.730	26.4	2.4 *	5.405
FEB	1.900	83.0	39.3	53	74.670	608.0	29.9	95	56.810	10.1	1.1 *	2.090
MAR	1.600	231.0	87.0	62	139.200	469.0	77.7	83	124.320	14.4	2.5 *	4.000
APR	1.800	247.0	81.6	67	146.880	1089.0	62.1	94	111.780	34.5	0.5	0.810
MAY	1.600	164.0	71.0	57	113.600	595.0	42.0	93	67.200	21.0	2.9 *	4.560
JUN	1.600	122.0	57.2	53	91.520	196.0	35.3	82	56.480	14.7	2.4 *	3.840
JUL	1.800	144.0	34.2	76	61.560	765.0	30.2	96	54.360	29.7	1.0	1.854
AUG	1.800	55.0	47.2	14	84.960	79.0	31.7	60	57.060	4.4	2.2 *	4.014
SEP	1.700	95.0	47.9	50	81.430	161.0	37.0	77	62.900	4.9	1.7 *	2.890
OCT	1.600	124.0	61.7	50	98.720	192.0	34.1	82	54.560	7.2	2.0 *	3.200
NOV	1.590	152.0	72.0	53	114.480	485.0	53.0	89	84.270	26.1	2.6 *	4.134
DEC	1.600	202.0	66.4	67	106.240	966.0	69.4	93	111.040	19.5	1.2 *	1.984
AVERAGE:	1.741	152.0	59.4	56	101.876	523.0	44.8	87	76.793	17.7	1.9 *	3.232
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											10	
NO OF SAMPLES		18	18			18	18			18	58	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 50%
SS - YES	SS - 70%
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	86/01/01		
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT BURWELL
PLANT : PORT BURWELL WPCP
WORKS NUMBER : 110001319
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.52 1000 m3
POPULATION SERVED : 780

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BIG OTTER CR.- LAKE ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.183	157.0	1.2		0.220	172.0	12.5		2.288	8.6	0.5	0.099
FEB	0.154	222.0	4.2		0.647	608.0	8.0		1.232	11.4	0.4	0.054
MAR	0.160	206.0	3.9		0.624	199.0	6.4		1.024	11.6	0.3	0.054
APR	0.167	134.0	8.5		1.419	179.0	5.7		0.952	9.4	0.3	0.053
MAY	0.139	235.0	6.6		0.917	291.0	4.9		0.681	11.6	0.7	0.090
JUN	0.158	296.0	3.4		0.537	239.0	4.3		0.679	14.8	0.2	0.028
JUL	0.164	261.0	4.2		0.689	373.0	5.1		0.836	16.8	0.3	0.044
AUG	0.187	223.0	2.0		0.374	260.0	6.2		1.159	15.4	0.4	0.079
SEP	0.168	208.0	3.3		0.554	181.0	12.6		2.117	12.9	1.2 *	0.202
OCT	0.162	219.0	3.8		0.616	227.0	12.0		1.944	10.0	0.7	0.115
NOV	0.171	211.0	3.5		0.599	491.0	16.0		2.736	15.6	0.6	0.103
DEC	0.200	215.0	3.5		0.700	284.0	11.7		2.340	11.6	0.5	0.092
AVERAGE:	0.168	216.0	4.0		0.658	292.0	8.8		1.499	12.5	0.5	0.084
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		20	21			19	21			20	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT ELGIN
PLANT : PORT ELGIN WPCP
WORKS NUMBER : 120001470
TREATMENT : OXIDATION DITCH

DESIGN CAPACITY : 6.45 1000 m3
POPULATION SERVED : 6115

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.233	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	3.114	82.0	6.3		19.618	11.0	6.4		19.930	4.2	2.5	7.629
MAR	2.917	89.0	7.0		20.419	13.0	5.7		16.627	5.0	3.0	8.605
APR	2.912	143.0	6.8		19.802	219.0	7.9		23.005	7.8	2.5	7.134
MAY	3.641	179.0	2.2		8.010	238.0	4.4		16.020	6.6	0.4	1.347
JUN	4.224	96.0	1.4		5.914	140.0	6.6		27.878	4.2	1.0	4.224
JUL	4.629	90.0	1.8		8.332	124.0	7.7		35.643	4.7	0.5	2.222
AUG	4.223	101.0	1.1		4.645	175.0	5.1		21.537	5.7	0.7	2.914
SEP	4.182	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	44.346	108.0	6.2		274.945	8.0	5.4		239.468	6.9	0.8	35.920
NOV	4.964	336.0	26.0		129.064	119.0	7.6		37.726	4.3	0.9	4.567
DEC	5.757	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	7.429	136.0	6.5		54.528	116.0	6.3		48.648	5.5	1.3	8.285
OBSERVATIONS:	12	9	9			9	9			9	9	
EXCEEDANCES												
NO OF SAMPLES		9	9			9	9			9	9	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CONSTRUCTION COMPLETED		87/03/31	87/12/31
DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE		87/03/30	1987
OPERATION AND/OR MAINENANCE PROCEDURES BEING IMPLEMENTED		88/06/31	1988

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT STANLEY
PLANT : PORT STANLEY LAGOON
WORKS NUMBER : 110001373
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.49 1000 m3
POPULATION SERVED : 1945

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DITCH TO KETTLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.260	131.0	ND			132.0	ND			5.3	ND	
FEB	1.070	37.0	ND			31.0	ND			2.5	ND	
MAR	1.130	58.0	ND			71.0	ND			3.8	ND	
APR	1.370	63.0	23.2			82.0	45.8			4.6	0.5	
MAY	1.300	259.0	14.5			185.0	21.5			6.0	0.8	
JUN	1.330	64.0	ND			75.0	ND			3.3	ND	
JUL	1.300	33.0	ND			56.0	ND			2.7	ND	
AUG	1.390	122.0	ND			140.0	ND			5.2	ND	
SEP	1.180	58.0	ND			66.0	ND			3.3	ND	
OCT	1.030	47.0	2.5			37.0	9.3			2.6	0.2	
NOV	1.050	91.0	8.4			75.0	14.0			4.3	0.4	
DEC	1.180	112.0	5.1			91.0	19.8			4.8	0.3	
AVERAGE:	1.216	90.0	10.7		13.609	87.0	22.1		27.668	4.0	0.4	0.510
OBSERVATIONS:	12	12	5			12	5			12	5	
EXCEEDANCES												
NO OF SAMPLES		25	32			25	32			25	32	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RALEIGH-TILBURY EAST
PLANT : MERLIN PV LAGOON
WORKS NUMBER : 110000935
TREATMENT : CONVENTIONAL LAGOON ANNUAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.46 1000 m3
POPULATION SERVED : 523

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FOXTON DR.- JEANETTES CK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.186	146.0	ND			525.0	ND			5.5	ND	
FEB	0.186	241.0	ND			389.0	ND			10.1	ND	
MAR	0.175	251.0	ND			297.0	ND			10.7	ND	
APR	0.183	261.0	1.4			330.0	5.5			9.0	0.2	
MAY	0.114	193.0	ND			140.0	ND			8.2	ND	
JUN	0.137	170.0	ND			138.0	ND			6.4	ND	
JUL	0.149	193.0	ND			85.0	ND			9.5	ND	
AUG	0.140	672.0	ND			80.0	ND			14.5	ND	
SEP	0.147	310.0	ND			144.0	ND			10.3	ND	
OCT	0.158	293.0	ND			215.0	ND			7.9	ND	
NOV	0.167	239.0	5.4			216.0	100.2			11.2	0.7	
DEC	0.177	235.0	2.4			137.0	170.3			9.9	0.8	
AVERAGE:	0.160	267.0	3.1		0.528	225.0	92.0 *		15.961	9.4	0.5	0.095
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		12	4			12	4			12	4	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RIDGETOWN
PLANT : RIDGETOWN LAGOON
WORKS NUMBER : 110001364
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.33 1000 m3
POPULATION SERVED : 3152

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GAWNE DR TO MCGREGOR CK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.000	212.0	ND			260.0	ND			8.5	ND	
FEB	0.970	111.0	ND			220.0	ND			6.9	ND	
MAR	1.020	237.0	ND			283.0	ND			9.8	ND	
APR	1.100	119.0	23.5			185.0	26.6			6.7	0.5	
MAY	0.930	197.0	25.3			329.0	47.8			9.2	2.6 *	
JUN	0.850	199.0	ND			306.0	ND			9.6	ND	
JUL	0.802	137.0	ND			283.0	ND			9.2	ND	
AUG	0.863	170.0	ND			303.0	ND			10.5	ND	
SEP	0.917	233.0	ND			254.0	ND			8.4	ND	
OCT	0.919	163.0	ND			277.0	ND			9.1	ND	
NOV	0.943	147.0	47.4			176.0	81.2			9.4	1.5 *	
DEC	1.140	160.0	ND			188.0	ND			9.0	ND	
AVERAGE:	0.955	174.0	32.1 *		31.359	255.0	51.9 *		50.095	8.9	1.5 *	1.463
OBSERVATIONS:12		12	3			12	3			12	3	
EXCEEDANCES											2	
NO OF SAMPLES		13	11			13	11			13	11	

COMPLIANCE :

BOD - NO
SS - NO
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	87/12/01	87/12/31	88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RODNEY
PLANT : RODNEY LAGOON
WORKS NUMBER : 110001667
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 1025

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SIXTEEN MILE CK.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.448	517.0	ND			354.0	ND			7.7	ND	
FEB	0.412	934.0	ND			458.0	ND			10.8	ND	
MAR	0.450	520.0	ND			622.0	ND			6.5	ND	
APR	0.500	217.0	19.8			116.0	66.7			7.9	0.7	
MAY	0.522	188.0	ND			213.0	ND			7.1	ND	
JUN	0.381	326.0	ND			130.0	ND			9.1	ND	
JUL	0.392	480.0	ND			249.0	ND			11.1	ND	
AUG	0.415	20.0	ND			56.0	ND			1.8	ND	
SEP	0.437	282.0	ND			148.0	ND			3.5	ND	
OCT	0.426	244.0	34.8			158.0	259.1			7.0	2.7 *	
NOV	0.443	14.0	ND			62.0	ND			0.8	ND	
DEC	0.544	149.0	ND			67.0	ND			7.1	ND	
AVERAGE:	0.448	324.0	27.3		12.363	219.0	162.9 *		71.864	6.7	1.7 *	0.765
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES											1	
NO OF SAMPLES		12	7			12	7			12	7	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS	86/01/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ROMNEY
PLANT : WHEATLY WPCP
WORKS NUMBER : 110003246
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.75 1000 m3
POPULATION SERVED : 2328

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.740	208.0	1.7		1.258	221.0	7.1		5.254	9.3	0.3	0.229
FEB	0.660	137.0	5.4		3.564	166.0	11.4		7.524	8.5	0.5	0.323
MAR	0.728	396.0	3.6		2.621	329.0	8.6		6.261	20.4	0.4	0.269
APR	0.914	842.0	4.2		3.839	332.0	6.3		5.758	15.5	0.7	0.594
MAY	0.921	539.0	3.7		3.408	388.0	7.0		6.447	14.3	0.4	0.359
JUN	1.102	491.0	1.9		2.094	313.0	4.3		4.739	14.5	0.6	0.672
JUL	0.758	347.0	2.9		2.198	293.0	4.5		3.411	11.4	0.3	0.227
AUG	0.847	559.0	1.0		0.847	386.0	8.0		6.776	11.8	0.3	0.280
SEP	0.961	947.0	2.5		2.402	544.0	4.1		3.940	15.5	0.3	0.298
OCT	1.030	369.0	2.7		2.781	371.0	7.1		7.313	16.7	0.7	0.680
NOV	0.858	155.0	3.0		2.574	302.0	11.2		9.610	8.8	0.6	0.472
DEC	0.868	99.0	2.2		1.910	188.0	11.8		10.242	3.8	0.5	0.391
AVERAGE:	0.866	424.0	2.9		2.458	319.0	7.6		6.440	12.5	0.5	0.400
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	25			140	142			23	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SARNIA
PLANT : BRIGHT'S GROVE LAGOON
WORKS NUMBER : 110001989
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CREEK TO L.HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.75 1000 m3
POPULATION SERVED : 2500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.040	171.0	ND			110.0	ND			10.0	ND	
FEB	0.960	106.0	ND			138.0	ND			8.5	ND	
MAR	1.030	146.0	ND			114.0	ND			7.6	ND	
APR	1.200	137.0	4.3			131.0	5.0			8.5	2.5	
MAY	0.960	136.0	ND			114.0	ND			7.1	ND	
JUN	0.970	ND	ND			ND	ND			ND	ND	
JUL	0.940	229.0	ND			599.0	ND			14.1	ND	
AUG	0.900	172.0	ND			129.0	ND			6.6	ND	
SEP	1.000	ND	ND			ND	ND			ND	ND	
OCT	1.000	214.0	8.4			544.0	21.4			10.5	1.8	
NOV	1.160	126.0	9.6			104.0	22.4			8.4	1.9	
DEC	1.200	88.0	ND			75.0	ND			6.5	ND	
AVERAGE:	1.030	152.0	7.4		8.232	206.0	16.3		17.795	8.8	2.1	2.321
OBSERVATIONS:12		10	3			10	3			10	3	
EXCEEDANCES												
NO OF SAMPLES		11	6			11	6			11	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILITY EXPANSION AND/OR UPGRADING-UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SARNIA
PLANT : SARNIA WPCP
WORKS NUMBER : 120000907
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 65.91 1000 m3
POPULATION SERVED : 64475

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. CLAIR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	51.155	145.0	58.0	60	2966.990	163.0	31.0	81	1585.805	6.3	0.9	43.993
FEB	50.497	131.0	47.0	64	2373.359	184.0	29.0	84	1464.413	5.9	1.0	47.972
MAR	51.446	160.0	48.0	70	2469.408	228.0	31.0	86	1594.826	6.9	1.0	52.989
APR	53.784	124.0	44.0	65	2366.496	323.0	35.0	89	1882.440	8.2	1.0	53.784
MAY	50.594	154.0	55.0	64	2782.670	315.0	31.0	90	1568.414	7.0	0.9	45.535
JUN	54.390	131.0	36.0	73	1958.040	181.0	18.0	90	979.020	6.0	0.9	47.863
JUL	56.019	96.0	24.0	75	1344.456	135.0	18.0	87	1008.342	5.6	0.9	47.616
AUG	55.710	ND	ND	0	ND	110.0	13.0	88	724.230	5.1	0.8	42.897
SEP	58.183	151.0	26.0	83	1512.758	162.0	16.0	90	930.928	4.8	0.7	37.819
OCT	57.903	77.0	7.0	91	405.321	192.0	17.0	91	984.351	6.8	0.7	42.848
NOV	55.436	116.0	31.0	73	1718.516	271.0	25.0	91	1385.900	9.1	1.0	53.219
DEC	60.040	134.0	54.0	60	3242.160	304.0	25.0	92	1501.000	7.7	0.9	51.034
AVERAGE:	54.596	129.0	39.1	71	2103.652	214.0	24.1	88	1300.806	6.6	0.9	47.297
OBSERVATIONS:12		11	11			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	21			174	174			171	171	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SEAFORTH
PLANT : SEAFORTH LAGOON
WORKS NUMBER : 110001177
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.01 1000 m3
POPULATION SERVED : 2120

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CRESSWELL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.550	62.0	ND			79.0	ND			3.6	ND	
FEB	1.330	118.0	ND			134.0	ND			3.5	ND	
MAR	2.510	66.0	ND			122.0	ND			4.0	ND	
APR	2.240	63.0	17.5			98.0	31.1			3.4	0.8	
MAY	1.180	144.0	ND			125.0	ND			4.4	ND	
JUN	1.010	132.0	ND			198.0	ND			4.4	ND	
JUL	1.010	78.0	ND			141.0	ND			3.2	ND	
AUG	0.990	109.0	ND			182.0	ND			4.3	ND	
SEP	0.970	126.0	ND			176.0	ND			5.8	ND	
OCT	1.200	122.0	ND			296.0	ND			7.9	ND	
NOV	1.890	114.0	8.5			221.0	5.2			6.5	0.6	
DEC	2.530	45.0	3.6			64.0	5.8			2.0	0.3	
AVERAGE:	1.534	98.0	9.9		21.458	153.0	14.0		31.389	4.4	0.5	1.158
OBSERVATIONS:12		12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		13	13			13	13			13	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SOMBRA	REGION : SOUTHWEST
PLANT : PORT LAMBTON LAGOON	DISTRICT : SARNIA
WORKS NUMBER : 110001694	OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH	WATERCOURSE : MARSHY CK.TO ST.CLAIR R.
	MAJOR BASIN : GREAT LAKES
	MINOR BASIN : LAKE ERIE
DESIGN CAPACITY : 1.08 1000 m3	IJC DESIGNATION : DIRECT
POPULATION SERVED : 925	

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.437	111.0	ND			120.0	ND			6.3	ND	
FEB	0.445	ND	ND			ND	ND			ND	ND	
MAR	0.504	79.0	ND			122.0	ND			1.2	ND	
APR	0.460	73.0	11.8			90.0	115.5			4.1	0.7	
MAY	0.362	138.0	ND			141.0	ND			8.4	ND	
JUN	0.395	119.0	ND			125.0	ND			7.8	ND	
JUL	0.391	110.0	ND			66.0	ND			7.9	ND	
AUG	0.341	122.0	ND			177.0	ND			7.4	ND	
SEP	0.469	125.0	ND			116.0	ND			7.3	ND	
OCT	0.366	154.0	ND			108.0	ND			8.4	ND	
NOV	0.396	ND	13.6			ND	111.5			ND	1.0	
DEC	0.523	155.0	ND			166.0	ND			7.4	ND	
AVERAGE:	0.424	119.0	12.7		5.407	123.0	113.5 *		48.642	6.6	0.8	0.348
OBSERVATIONS:	12	10	2			10	2			10	2	
EXCEEDANCES												
NO OF SAMPLES		12	7			12	5			12	7	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SOMBRA
PLANT : SOMBRA LAGOON
WORKS NUMBER : 110001685
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.96 1000 m3
POPULATION SERVED : 402

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST. CLAIR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.181	87.0	ND			73.0	ND			5.8	ND	
FEB	0.202	ND	ND			ND	ND			ND	ND	
MAR	0.201	102.0	ND			110.0	ND			9.2	ND	
APR	0.210	90.0	6.4			93.0	81.2			5.9	0.5	
MAY	0.182	139.0	ND			113.0	ND			7.7	ND	
JUN	0.181	98.0	ND			88.0	ND			6.3	ND	
JUL	0.199	114.0	ND			41.0	ND			9.5	ND	
AUG	0.231	90.0	ND			106.0	ND			6.3	ND	
SEP	0.233	58.0	ND			100.0	ND			5.3	ND	
OCT	0.178	250.0	2.6			374.0	26.0			9.7	0.2	
NOV	0.211	121.0	10.2			504.0	80.8			7.1	0.5	
DEC	0.248	108.0	ND			71.0	ND			6.3	ND	
AVERAGE:	0.205	114.0	6.4		1.320	152.0	62.7 *		12.910	7.2	0.4	0.075
OBSERVATIONS:	12	11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		13	7			13	7			13	7	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILITY EXPANSION AND/OR UPGRADING-ENGINEERING STUDY PHASE	88/03/01	89/09/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SOUTHAMPTON
PLANT : SOUTHAMPTON WPCP
WORKS NUMBER : 110001453
TREATMENT : OXIDATION DITCH

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SAUGEEN R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.04 1000 m3
POPULATION SERVED : 2680

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.802	160.0	4.7		3.769	136.0	7.0		5.614	4.1	2.6	2.045
FEB	0.697	88.0	5.9		4.112	90.0	8.9		6.203	4.6	2.9	1.986
MAR	0.891	58.0	3.7		3.297	104.0	5.2		4.633	3.6	2.3	2.040
APR	0.941	71.0	3.8		3.576	110.0	3.3		3.105	3.9	2.6	2.428
MAY	0.899	108.0	3.4		3.057	133.0	6.7		6.023	5.5	3.7	3.353
JUN	0.921	74.0	1.0		0.921	78.0	2.0		1.842	4.4	3.4	3.113
JUL	1.300	84.0	2.0		2.600	123.0	2.0		2.600	5.6	4.0	5.135
AUG	1.374	85.0	2.0		2.748	125.0	3.0		4.122	5.3	3.8	5.194
SEP	1.144	62.0	2.0		2.288	104.0	2.0		2.288	4.1	3.7	4.233
OCT	1.355	63.0	3.0		4.065	105.0	4.0		5.420	4.3	2.5	3.388
NOV	1.489	59.0	3.0		4.467	103.0	3.0		4.467	3.3	2.0	3.023
DEC	1.599	50.0	4.0		6.396	80.0	4.0		6.396	3.9	2.0	3.150
AVERAGE:	1.118	80.0	3.2		3.441	108.0	4.3		4.393	4.4	2.9	3.257
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		29	23			53	23			24	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST EDMUNDS
PLANT : TOBERMORY LAGOON
WORKS NUMBER : 120001577
TREATMENT : AERATED CELL PLUS LAGOON
EXFILTRATION LAGOON

DESIGN CAPACITY : 0.16 1000 m3
POPULATION SERVED : 100

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.048	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	0.009	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	0.015	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	0.019	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.044	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	0.073	24.0	8.1		0.591	51.0	39.6		2.891	9.8	2.9	0.212
JUL	0.132	136.0	30.0		3.960	216.0	53.0		6.996	20.0	8.0	1.049
AUG	0.142	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	0.085	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	0.061	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	0.033	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	0.026	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.057	80.0	19.1		2.276	134.0	46.3 *		4.944	14.9	5.4	0.630
OBSERVATIONS:12		2	2			2	2			2	2	
EXCEEDANCES												
NO OF SAMPLES		2	2			2	2			2	2	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST MARYS
PLANT : ST MARYS WPCP
WORKS NUMBER : 110001275
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.63 1000 m3
POPULATION SERVED : 5000

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.920	187.0	12.9		50.568	125.0	6.5		25.480	5.1	0.5	1.921
FEB	4.130	224.0	8.6		35.518	322.0	5.1		21.063	8.4	0.5	2.065
MAR	4.940	126.0	6.2		30.628	161.0	5.6		27.664	4.6	0.5	2.322
APR	4.850	155.0	6.3		30.555	230.0	4.1		19.885	6.2	0.5	2.328
MAY	4.040	186.0	4.2		16.968	143.0	4.8		19.392	6.1	0.5	2.020
JUN	4.180	292.0	4.3		17.974	191.0	5.9		24.662	6.8	0.6	2.592
JUL	3.850	432.0	3.8		14.630	253.0	3.3		12.705	6.2	0.7	2.733
AUG	3.820	236.0	5.0		19.100	208.0	3.8		14.516	6.0	0.6	2.177
SEP	3.690	229.0	5.2		19.188	158.0	6.5		23.985	6.0	0.7	2.398
OCT	3.760	143.0	6.5		24.440	132.0	6.4		24.064	6.4	0.8	3.158
NOV	3.680	159.0	3.4		12.512	169.0	2.2		8.096	7.9	0.4	1.509
DEC	4.720	140.0	5.0		23.600	111.0	4.6		21.712	4.5	0.4	1.935
AVERAGE:	4.132	209.0	6.0		24.640	184.0	4.9		20.269	6.2	0.6	2.263
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		26	26			26	26			26	26	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/09/01	89/06/30	90/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST THOMAS
PLANT : ST THOMAS WPCP
WORKS NUMBER : 120001112
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 40.91 1000 m3
POPULATION SERVED : 28218

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KETTLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	18.331	60.0	4.5		82.489	170.0	4.0		73.324	6.3	0.6	11.182
FEB	15.749	89.0	10.2		160.640	131.0	6.2		97.644	5.1	0.8	11.969
MAR	17.671	63.0	14.5		256.229	93.0	18.8		332.215	3.8	0.7	12.900
APR	18.942	79.0	7.7		145.853	434.0	15.0		284.130	12.0	0.8	14.207
MAY	ND	80.0	2.3		ND	160.0	7.4		ND	4.8	0.9	ND
JUN	15.911	91.0	5.7		90.693	99.0	3.8		60.462	5.2	0.7	11.774
JUL	14.811	102.0	5.5		81.460	210.0	4.3		63.687	7.3	1.0	14.811
AUG	17.011	80.0	4.3		73.147	125.0	2.0		34.022	5.8	1.0	16.160
SEP	19.093	137.0	5.3		101.193	126.0	5.4		103.102	5.5	1.0	19.093
OCT	14.660	259.0	7.3		107.018	312.0	4.8		70.368	7.3	0.9	13.634
NOV	15.759	104.0	3.8		59.884	91.0	2.8		44.125	5.6	0.8	13.238
DEC	19.797	73.0	8.0		158.376	64.0	3.4		67.310	5.7	0.6	12.670
AVERAGE:	17.067	101.0	6.6		119.726	168.0	6.5		111.854	6.2	0.8	13.785
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	213	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	87/12/01	88/06/30	88/06/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STEPHEN
PLANT : GRAND BEND LAGOON
WORKS NUMBER : 110002452
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AUSABLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.89 1000 m3
POPULATION SERVED : 1270

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.678	75.0	ND			221.0	ND			4.0	ND	
FEB	0.628	121.0	ND			178.0	ND			4.4	ND	
MAR	0.769	28.0	ND			36.0	ND			2.5	ND	
APR	0.937	98.0	11.4			123.0	81.7			4.2	0.3	
MAY	1.031	104.0	ND			127.0	ND			5.3	ND	
JUN	1.161	156.0	ND			177.0	ND			10.2	ND	
JUL	1.556	310.0	ND			394.0	ND			6.2	ND	
AUG	1.523	129.0	ND			130.0	ND			5.0	ND	
SEP	1.121	169.0	ND			189.0	ND			5.0	ND	
OCT	0.958	133.0	1.6			105.0	20.1			3.9	0.2	
NOV	0.893	81.0	ND			70.0	ND			4.9	ND	
DEC	1.002	219.0	ND			227.0	ND			4.5	ND	
AVERAGE:	1.021	135.0	6.5		6.107	165.0	50.9 *		47.904	5.0	0.2	0.203
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		13	5			13	5			13	5	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STEPHEN
PLANT : HURON PARK WPCP
WORKS NUMBER : 110003488
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AUSABLE R
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 1400

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.610	74.0	4.2		6.762	118.0	4.9		7.889	1.9	1.2	1.996
FEB	1.420	97.0	4.6		6.532	79.0	4.5		6.390	3.8	1.3	1.846
MAR	1.660	230.0	9.5		15.770	126.0	17.9		29.714	4.3	1.2	1.992
APR	1.600	123.0	10.0		16.000	98.0	9.6		15.360	3.5	1.1	1.808
MAY	1.150	231.0	17.0		19.550	164.0	11.3		12.995	4.0	1.4	1.610
JUN	1.050	173.0	10.5		11.025	300.0	7.5		7.875	4.4	0.9	0.924
JUL	1.040	94.0	12.6		13.104	255.0	9.4		9.776	3.8	0.6	0.624
AUG	1.020	303.0	31.6		32.232	161.0	22.7		23.154	5.2	3.8	3.876
SEP	1.000	107.0	15.6		15.600	143.0	12.0		12.000	4.7	2.3	2.250
OCT	1.160	62.0	7.7		8.932	89.0	11.1		12.876	2.8	1.9	2.146
NOV	1.540	30.0	6.3		9.702	50.0	5.9		9.086	2.1	0.7	1.078
DEC	1.890	121.0	8.3		15.687	106.0	3.8		7.182	2.7	1.7	3.251
AVERAGE:	1.345	137.0	11.5		14.241	141.0	10.1		12.858	3.6	1.5	1.950
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	25	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STRATFORD
PLANT : STRATFORD WPCP
WORKS NUMBER : 110000702
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 27.27 1000 m3
POPULATION SERVED : 26197

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AVON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	17.700	110.0	7.1		125.670	119.0	2.0		35.400	5.1	0.5	9.204
FEB	13.200	107.0	17.2		227.040	148.0	1.6		21.120	5.1	0.2	3.168
MAR	22.200	61.0	12.4		275.280	105.0	0.9		19.980	3.4	0.1	2.220
APR	20.900	96.0	8.2		171.380	132.0	1.7		35.530	4.2	1.1 *	23.408
MAY	12.900	105.0	5.9		76.110	149.0	2.0		25.800	5.5	0.3	4.386
JUN	12.200	163.0	15.6		190.320	277.0	1.7		20.740	5.9	0.2	2.562
JUL	13.200	98.0	21.3		281.160	123.0	1.5		19.800	4.7	0.1	1.848
AUG	14.600	102.0	8.7		127.020	162.0	1.2		17.520	4.7	0.1	1.460
SEP	15.990	168.0	9.3		148.707	240.0	1.6		25.584	5.4	0.2	3.038
OCT	18.606	184.0	9.6		178.618	253.0	0.4		7.442	6.3	0.2	4.279
NOV	20.907	210.0	11.4		238.340	222.0	1.4		29.270	5.1	0.4	9.199
DEC	27.481	145.0	9.6		263.818	250.0	0.6		16.489	4.8	0.5	13.191
AVERAGE:	17.490	129.0	11.4		191.955	182.0	1.4		22.890	5.0	0.3	6.497
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		26	26			26	26			26	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW			88/01/31
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STRATHROY
PLANT : STRATHROY LAGOON
WORKS NUMBER : 120000827
TREATMENT : AERATED LAGOON
CONTINUOUS DISCHARGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.18 1000 m3
POPULATION SERVED : 9051

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SYDENHAM RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.750	83.0	6.0		22.500	128.0	3.9		14.625	5.0	1.0	3.825
FEB	3.310	143.0	20.0		66.200	206.0	10.5		34.755	6.6	1.6 *	5.263
MAR	4.490	107.0	19.3		86.657	170.0	21.5		96.535	5.3	1.7 *	7.409
APR	4.850	90.0	14.8		71.780	176.0	18.7		90.695	4.7	1.3 *	6.062
MAY	3.280	110.0	15.5		50.840	187.0	44.4		145.632	6.2	1.1 *	3.706
JUN	3.520	113.0	16.4		57.728	433.0	29.6		104.192	5.7	1.3 *	4.541
JUL	3.060	73.0	19.0		58.140	176.0	87.8		268.668	5.0	1.5 *	4.590
AUG	6.220	105.0	2.6		16.172	258.0	2.0		12.440	5.2	0.6	3.545
SEP	4.710	207.0	2.1		9.891	361.0	1.2		5.652	8.2	0.9	4.333
OCT	3.850	116.0	2.3		8.855	180.0	1.4		5.390	7.2	0.6	2.272
NOV	3.960	152.0	2.6		10.296	279.0	1.2		4.752	7.6	0.5	1.901
DEC	4.850	211.0	3.0		14.550	407.0	1.4		6.790	7.7	0.4	1.843
AVERAGE:	4.154	126.0	10.3		39.467	247.0	18.6		65.844	6.2	1.0	4.108
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											6	
NO OF SAMPLES		42	38			41	38			42	38	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NEW EQUIPMENT IS BEING INSTALLED	86/09/01	87/06/30	
UPGRADING COMPLETED		87/07/31	1988

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : THAMESVILLE
PLANT : THAMESVILLE WPCP
WORKS NUMBER : 110002470
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.81 1000 m3
POPULATION SERVED : 905

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.230	72.0	8.4		1.932	77.0	12.4		2.852	4.6	0.5	0.115
FEB	0.222	163.0	23.6		5.239	125.0	20.7		4.595	9.0	0.9	0.209
MAR	0.204	209.0	4.5		0.918	155.0	18.1		3.692	7.7	0.6	0.112
APR	0.210	256.0	7.7		1.617	305.0	12.1		2.541	10.3	0.4	0.078
MAY	0.200	205.0	24.9		4.980	144.0	13.7		2.740	8.6	1.6 *	0.326
JUN	0.203	281.0	14.5		2.944	94.0	4.9		0.995	9.9	0.6	0.124
JUL	0.203	140.0	6.6		1.340	169.0	9.2		1.868	8.5	0.3	0.063
AUG	0.213	337.0	7.7		1.640	627.0	9.8		2.087	10.0	0.2	0.051
SEP	0.211	96.0	12.7		2.680	89.0	5.7		1.203	7.5	0.2	0.036
OCT	0.186	224.0	7.4		1.376	349.0	4.8		0.893	10.2	0.2	0.041
NOV	0.132	78.0	4.1		0.541	68.0	7.1		0.937	7.1	0.2	0.032
DEC	0.201	117.0	2.7		0.543	115.0	2.5		0.503	6.6	0.2	0.036
AVERAGE:	0.201	182.0	10.4		2.146	193.0	10.1		2.076	8.3	0.5	0.102
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		21	21			21	21			58	63	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING			87/06/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : THEDFORD
PLANT : THEDFORD LAGOON
WORKS NUMBER : 110002336
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DECKER CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.48 1000 m3
POPULATION SERVED : 661

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.185	73.0	ND			90.0	ND			6.9	ND	
FEB	0.183	130.0	ND			129.0	ND			8.0	ND	
MAR	0.209	52.0	ND			95.0	ND			4.8	ND	
APR	0.184	74.0	10.6			103.0	57.3			4.5	0.4	
MAY	0.172	113.0	ND			90.0	ND			8.2	ND	
JUN	0.199	84.0	ND			63.0	ND			7.3	ND	
JUL	0.244	99.0	ND			190.0	ND			6.0	ND	
AUG	0.194	96.0	ND			124.0	ND			6.5	ND	
SEP	0.166	149.0	ND			205.0	ND			10.0	ND	
OCT	0.210	159.0	ND			232.0	ND			7.7	ND	
NOV	0.192	134.0	ND			226.0	ND			8.0	ND	
DEC	0.237	89.0	ND			109.0	ND			5.5	ND	
AVERAGE:	0.198	104.0	10.6		1.950	138.0	57.3 *		10.543	7.0	0.4	0.064
OBSERVATIONS:	12	12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		12	2			12	2			12	2	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : THORNBURY
PLANT : THORNBURY LAGOON
WORKS NUMBER : 110001890
TREATMENT : AERATED CELL PLUS LAGOON
SUMMER STORAGE

DESIGN CAPACITY : 1.72 1000 m3
POPULATION SERVED : 1758

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BEAVER RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.203	75.0	3.0			66.0	4.4			3.0	1.0	
FEB	1.120	114.0	4.1			111.0	1.5			3.1	1.3	
MAR	1.792	78.0	6.2			70.0	2.8			2.7	1.4	
APR	1.660	31.0	13.6			41.0	46.2			1.5	1.3	
MAY	1.030	71.0	ND			202.0	ND			3.3	ND	
JUN	1.004	47.0	ND			101.0	ND			3.6	ND	
JUL	1.060	51.0	ND			82.0	ND			3.8	ND	
AUG	1.142	43.0	ND			61.0	ND			3.5	ND	
SEP	0.925	98.0	ND			98.0	ND			4.7	ND	
OCT	1.052	108.0	2.3			147.0	4.4			4.1	2.8	
NOV	1.356	12.0	1.7			11.0	5.2			0.9	1.8	
DEC	1.830	85.0	4.7			121.0	4.5			3.6	1.3	
AVERAGE:	1.265	68.0	5.1		7.888	93.0	9.9		15.514	3.2	1.6	2.161
OBSERVATIONS:	12	12	7			12	7			12	7	
EXCEEDANCES												
NO OF SAMPLES		27	21			27	21			27	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS	89/01/31	90/01/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TILBURY
PLANT : TILBURY LAGOON
WORKS NUMBER : 120000916
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.53 1000 m3
POPULATION SERVED : 4200

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TILBURY CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.710	ND	ND			ND	ND			ND	ND	
FEB	4.140	ND	ND			ND	ND			ND	ND	
MAR	3.800	ND	ND			ND	ND			ND	ND	
APR	3.800	ND	ND			ND	ND			ND	ND	
MAY	3.870	ND	ND			ND	ND			ND	ND	
JUN	3.850	ND	ND			ND	ND			ND	ND	
JUL	3.230	ND	ND			ND	ND			ND	ND	
AUG	3.200	ND	ND			ND	ND			ND	ND	
SEP	3.300	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	3.877	ND	ND			ND	ND			ND	ND	
DEC	4.535	ND	ND			ND	ND			ND	ND	
AVERAGE:	3.756	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	11	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS 40 mg/l
TP - INSUFFICIENT DATA TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: TILBURY NORTH	REGION	: SOUTHWEST
PLANT	: STONEY POINT P.V. LAGOON	DISTRICT	: WINDSOR
WORKS NUMBER	: 110002345	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH	WATERCOURSE	: LITTLE CREEK
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ERIE
DESIGN CAPACITY	: 0.95 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 1263		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.954	ND	ND			ND	ND			ND	ND	
FEB	0.956	30.0	ND			40.0	ND			2.5	ND	
MAR	1.030	26.0	ND			25.0	ND			1.7	ND	
APR	1.438	26.0	ND			25.0	ND			1.5	ND	
MAY	0.802	62.0	10.3			83.0	37.1			4.1	0.4	
JUN	0.755	68.0	ND			49.0	ND			5.0	ND	
JUL	0.856	51.0	ND			73.0	ND			4.3	ND	
AUG	0.795	29.0	ND			37.0	ND			3.2	NC	
SEP	0.827	61.0	ND			91.0	ND			4.7	ND	
OCT	0.745	35.0	ND			27.0	ND			2.3	ND	
NOV	0.691	ND	10.7			ND	57.3			ND	0.4	
DEC	1.064	61.0	ND			56.0	ND			3.7	ND	
AVERAGE:	0.909	45.0	10.5		7.827	51.0	47.2 *		34.674	3.3	0.4	0.289
OBSERVATIONS:	12	10	2			10	2			10	2	
EXCEEDANCES												
NO OF SAMPLES		12	13			12	13			12	13	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/31	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TILBURY WEST
PLANT : COMBER LAGOON
WORKS NUMBER : 110001676
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.40 1000 m3
POPULATION SERVED : 780

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GOVN'T DR NO.1 TO BIG CK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.329	ND	ND			ND	ND			ND	ND	
FEB	0.302	104.0	ND			153.0	ND			6.7	ND	
MAR	0.313	137.0	ND			181.0	ND			0.7	ND	
APR	0.345	118.0	ND			117.0	ND			5.3	ND	
MAY	0.225	152.0	16.8			174.0	28.8			9.3	0.5	
JUN	0.225	119.0	ND			112.0	ND			7.3	ND	
JUL	0.220	68.0	ND			128.0	ND			6.2	ND	
AUG	0.262	109.0	ND			116.0	ND			5.7	ND	
SEP	0.365	113.0	ND			154.0	ND			9.2	ND	
OCT	0.239	ND	ND			ND	ND			ND	ND	
NOV	0.314	ND	13.2			ND	27.2			ND	0.7	
DEC	0.426	124.0	ND			93.0	ND			6.9	ND	
AVERAGE:	0.297	116.0	15.0		3.962	136.0	28.0		7.511	6.4	0.6	0.170
OBSERVATIONS:	12	9	2			9	2			9	2	
EXCEEDANCES												
NO OF SAMPLES		10	10			11	10			11	10	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TILLSONBURG
PLANT : TILLSONBURG WPCP
WORKS NUMBER : 110000757
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.90 1000 m3
POPULATION SERVED : 9519

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BIG OTTER CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	4.357	161.0	4.4		19.171	185.0	7.9		34.420	7.2	0.5	1.961
FEB	4.231	116.0	5.4		22.847	167.0	5.9		24.963	6.4	0.2	1.015
MAR	4.491	119.0	1.5		6.736	160.0	8.4		37.724	6.8	0.5	2.021
APR	4.776	101.0	1.9		9.074	154.0	5.1		24.358	5.6	0.4	1.672
MAY	4.104	142.0	2.5		10.260	200.0	8.3		34.063	6.4	0.5	2.175
JUN	4.190	106.0	2.0		8.380	175.0	5.3		22.207	6.2	0.7	3.059
JUL	3.951	147.0	1.7		6.717	207.0	5.1		20.150	8.4	0.5	1.817
AUG	4.065	94.0	2.4		9.756	181.0	6.0		24.390	6.8	0.3	2.602
SEP	4.057	96.0	3.0		12.171	195.0	8.2		33.267	5.7	0.4	1.542
OCT	3.911	128.0	1.4		5.475	255.0	6.5		25.422	7.6	0.5	2.073
NOV	4.146	86.0	1.5		6.219	122.0	6.0		24.876	2.2	0.5	1.949
DEC	4.633	121.0	2.3		10.656	238.0	6.1		28.261	5.8	0.4	2.039
AVERAGE:	4.243	118.0	2.5		10.622	187.0	6.6		27.842	6.3	0.5	1.994
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	24			53	53			24	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TUCKERSMITH
PLANT : VAN ASTRA WPCP
WORKS NUMBER : 110003013
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.40 1000 m3
POPULATION SERVED : 1000

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MUN DRAIN TO BAYFIELD R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.474	62.0	6.9		3.271	89.0	11.3		5.356	3.6	0.8	0.360
FEB	0.302	62.0	4.8		1.450	107.0	11.6		3.503	3.2	0.7	0.199
MAR	0.629	30.0	9.6		6.038	48.0	12.4		7.800	1.6	0.6	0.396
APR	0.440	98.0	5.8		2.552	216.0	11.8		5.192	4.9	1.2 *	0.537
MAY	0.345	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	0.290	153.0	2.1		0.609	372.0	3.5		1.015	8.8	1.9 *	0.551
JUL	0.284	90.0	2.6		0.738	120.0	8.8		2.499	4.6	0.6	0.170
AUG	0.302	170.0	2.1		0.634	443.0	9.1		2.748	6.6	0.7	0.208
SEP	0.318	170.0	2.9		0.922	411.0	11.4		3.625	7.7	1.2 *	0.369
OCT	0.528	119.0	3.7		1.954	121.0	11.2		5.914	5.5	0.8	0.401
NOV	1.060	56.0	7.5		7.950	77.0	15.8		16.748	2.8	1.0	1.018
DEC	1.089	66.0	7.1		7.732	165.0	9.7		10.563	2.4	0.6	0.664
AVERAGE:	0.505	98.0	5.0		3.077	197.0	10.6		5.906	4.7	0.9	0.443
OBSERVATIONS:12		11	11			11	11			11	11	
EXCEEDANCES											3	
NO OF SAMPLES		24	24			24	24			24	24	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED			88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WALKERTON
PLANT : WALKERTON WPCP
WORKS NUMBER : 120001489
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 7.54 1000 m3
POPULATION SERVED : 4591

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.900	406.0	20.7		101.430	481.0	11.3		55.370	6.7	1.3 *	6.370
FEB	4.724	261.0	20.5		96.842	232.0	10.2		48.185	6.6	1.4 *	6.614
MAR	6.239	221.0	22.1		137.882	201.0	12.2		76.116	5.0	1.1 *	6.925
APR	7.361	56.0	9.8		72.138	157.0	12.2		89.804	4.4	8.5 *	62.569
MAY	5.671	241.0	6.7		37.996	343.0	8.8		49.905	5.7	1.0	5.671
JUN	5.837	257.0	6.4		37.357	251.0	8.7		50.782	5.9	0.6	3.502
JUL	5.230	299.0	9.0		47.070	340.0	8.8		46.024	7.1	0.6	2.877
AUG	4.519	382.0	12.3		55.584	379.0	9.8		44.286	6.4	0.8	3.796
SEP	4.779	472.0	25.8		123.298	371.0	12.3		58.782	7.8	1.1 *	5.018
OCT	4.292	452.0	15.5		66.526	314.0	8.1		34.765	7.4	0.5	2.318
NOV	5.357	330.0	10.3		55.177	214.0	6.6		35.356	6.0	0.9	4.821
DEC	5.324	298.0	11.8		62.823	227.0	6.1		32.476	5.7	0.6	3.194
AVERAGE:	5.353	306.0	14.2		74.510	292.0	9.6		51.821	6.2	1.5 *	9.473
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											5	
NO OF SAMPLES		24	24			67	238			42	46	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE			89/12/31
UNDER CONSTRUCTION			89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WALLACEBURG
PLANT : WALLACEBURG WPCP
WORKS NUMBER : 110000784
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 9200

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SYDENHAM RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	7.062	88.0	8.0		56.496	150.0	14.0		98.868	3.3	0.3	2.119
FEB	6.709	143.0	15.0		100.635	164.0	9.0		60.381	4.5	0.6	3.958
MAR	6.942	113.0	13.8		95.800	169.0	9.0		62.478	9.8	1.0	6.942
APR	6.575	82.0	7.0		46.025	154.0	7.0		46.025	3.1	0.4	2.827
MAY	5.262	106.0	7.0		36.834	188.0	8.0		42.096	6.1	0.5	2.841
JUN	5.839	98.0	13.0		75.907	202.0	12.0		70.068	5.1	0.7	4.321
JUL	6.219	102.0	10.0		62.190	173.0	9.0		55.971	5.7	0.7	4.353
AUG	7.328	109.0	9.0		65.952	187.0	8.0		58.624	4.2	1.0	7.255
SEP	6.943	117.0	12.0		83.316	220.0	9.0		62.487	9.3	0.8	5.346
OCT	6.820	110.0	19.0		129.580	203.0	12.0		81.840	7.4	0.9	6.002
NOV	7.171	98.0	11.0		78.881	214.0	9.0		64.539	9.7	0.9	6.526
DEC	8.288	115.0	8.0		66.304	162.0	9.0		74.592	10.2	0.7	6.050
AVERAGE:	6.763	107.0	11.1		74.827	182.0	9.6		64.831	6.5	0.7	4.878
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		58	60			253	257			22	37	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING BY-LAWS	88/01/01		88/13/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WATFORD
PLANT : WATFORD LAGOON
WORKS NUMBER : 110001809
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.05 1000 m3
POPULATION SERVED : 1434

REGION : SOUTHWEST
DISTRICT : SARNIA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BEAR CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.441	114.0	ND			99.0	ND			6.6	ND	
FEB	0.430	101.0	ND			71.0	ND			6.0	ND	
MAR	0.517	100.0	ND			126.0	ND			6.2	ND	
APR	0.531	236.0	ND			308.0	ND			11.4	ND	
MAY	0.427	128.0	ND			67.0	ND			6.7	ND	
JUN	0.417	122.0	ND			225.0	ND			7.9	ND	
JUL	0.405	125.0	ND			94.0	ND			7.1	ND	
AUG	0.409	142.0	ND			130.0	ND			7.0	ND	
SEP	0.470	103.0	ND			54.0	ND			5.9	ND	
OCT	0.507	132.0	3.2			69.0	8.8			8.3	0.4	
NOV	0.538	125.0	ND			109.0	ND			7.8	ND	
DEC	0.630	124.0	ND			94.0	ND			6.6	ND	
AVERAGE:	0.477	129.0	3.2		1.622	120.0	8.8		4.462	7.3	0.4	0.183
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		23	2			23	2			24	2	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	88/03/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WEST LORNE
PLANT : WEST LORNE LAGOON
WORKS NUMBER : 110001337
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.67 1000 m3
POPULATION SERVED : 1220

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ZOLLER DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.620	125.0	ND			91.0	ND			5.9	ND	
FEB	0.556	593.0	ND			568.0	ND			4.7	ND	
MAR	0.589	119.0	ND			259.0	ND			5.5	ND	
APR	0.625	84.0	7.3			230.0	30.0			4.2	0.5	
MAY	0.484	214.0	4.0			175.0	4.9			6.7	0.2	
JUN	0.471	200.0	ND			376.0	ND			8.1	ND	
JUL	0.436	121.0	ND			276.0	ND			7.7	ND	
AUG	0.564	126.0	ND			157.0	ND			6.5	ND	
SEP	0.639	79.0	ND			125.0	ND			4.6	ND	
OCT	0.555	ND	10.2			ND	67.4			ND	0.4	
NOV	0.651	131.0	ND			114.0	ND			5.9	ND	
DEC	0.786	13.0	ND			10.0	ND			1.4	ND	
AVERAGE:	0.581	164.0	7.2		4.053	216.0	34.1		19.510	5.6	0.4	0.202
OBSERVATIONS:12		11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		11	15			11	15			11	15	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	89/01/01	89/06/30	90/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WESTMINSTER
PLANT : SOUTHLAND PARK WPCP
WORKS NUMBER : 120000818
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DINGMAN CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.26 1000 m3
POPULATION SERVED : 540

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.099	129.0	2.5		0.248	165.0	1.1		0.109	7.1	0.4	0.038
FEB	0.100	147.0	1.6		0.160	130.0	1.0		0.100	9.4	0.3	0.032
MAR	0.105	94.0	1.8		0.189	124.0	1.8		0.189	7.5	0.3	0.035
APR	0.111	76.0	2.6		0.289	119.0	5.2		0.577	4.3	0.4	0.046
MAY	0.103	191.0	2.6		0.268	169.0	0.6		0.062	6.3	0.9	0.092
JUN	0.113	110.0	2.4		0.271	172.0	1.2		0.136	4.5	0.6	0.071
JUL	0.122	74.0	1.0		0.122	78.0	0.4		0.049	4.9	0.7	0.082
AUG	0.127	73.0	1.0		0.127	96.0	0.5		0.064	3.8	0.7	0.090
SEP	0.113	67.0	2.1		0.237	175.0	2.1		0.237	4.3	0.6	0.071
OCT	0.113	112.0	2.7		0.305	119.0	1.6		0.181	5.7	0.4	0.042
NOV	0.120	39.0	0.8		0.096	49.0	0.5		0.060	3.7	0.4	0.044
DEC	0.120	166.0	1.2		0.144	219.0	1.3		0.156	10.8	0.5	0.061
AVERAGE:	0.112	106.0	1.9		0.205	135.0	1.4		0.160	6.0	0.5	0.059
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	27			24	27			24	27	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WESTMINSTER
PLANT : WESTMINSTER WPCP
WORKS NUMBER : 110000800
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.13 1000 m3
POPULATION SERVED : 6059

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DINGMAN CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.262	97.0	6.6		8.329	167.0	5.3		6.689	3.7	0.2	0.303
FEB	1.018	109.0	3.2		3.258	203.0	2.6		2.647	3.8	0.1	0.132
MAR	1.189	198.0	3.4		4.043	230.0	2.9		3.448	9.0	0.2	0.178
APR	1.354	103.0	3.3		4.468	152.0	2.1		2.843	4.0	0.1	0.190
MAY	1.591	55.0	3.5		5.569	160.0	3.6		5.728	2.5	0.4	0.605
JUN	1.164	96.0	2.5		2.910	102.0	2.7		3.143	3.7	0.6	0.687
JUL	1.206	184.0	2.1		2.533	193.0	1.2		1.447	5.8	0.4	0.434
AUG	1.780	58.0	2.4		4.272	124.0	0.5		0.890	2.6	0.3	0.570
SEP	1.648	235.0	2.2		3.626	148.0	1.0		1.648	8.2	0.3	0.428
OCT	1.294	93.0	12.5		16.175	206.0	16.8		21.739	3.7	0.4	0.569
NOV	1.470	163.0	1.8		2.646	468.0	3.9		5.733	11.0	0.3	0.367
DEC	1.887	149.0	8.2		15.473	168.0	9.8		18.493	4.9	0.5	0.887
AVERAGE:	1.405	128.0	4.3		6.109	193.0	4.4		6.204	5.2	0.3	0.446
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			24	24			24	24	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WIARTON
PLANT : WIARTON LAGOON
WORKS NUMBER : 110000819
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.00 1000 m3
POPULATION SERVED : 2119

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : COLPOY BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.740	84.0	6.9		12.006	79.0	4.9		8.526	3.5	0.5	0.940
FEB	1.722	78.0	7.4		12.743	92.0	6.9		11.882	3.4	0.7	1.171
MAR	2.856	51.0	8.7		24.847	56.0	11.0		31.416	2.1	0.6	1.599
APR	2.454	38.0	13.0		31.902	39.0	25.0		61.350	1.5	0.3	0.712
MAY	1.662	80.0	1.1		1.828	61.0	17.0		28.254	3.2	0.6	0.997
JUN	1.600	71.0	10.8		17.280	104.0	3.8		6.080	3.8	1.0	1.552
JUL	1.425	95.0	6.4		9.120	162.0	3.2		4.560	4.7	0.9	1.282
AUG	1.763	91.0	2.1		3.702	76.0	1.2		2.116	3.9	0.6	1.058
SEP	1.892	47.0	2.2		4.162	65.0	3.7		7.000	2.7	0.5	0.889
OCT	2.323	55.0	8.3		19.281	67.0	10.3		23.927	2.6	0.3	0.743
NOV	2.794	60.0	5.0		13.970	49.0	2.7		7.544	2.6	0.2	0.503
DEC	2.766	46.0	5.8		16.043	40.0	2.8		7.745	2.6	0.2	0.415
AVERAGE:	2.083	66.0	6.5		13.907	74.0	7.7		16.700	3.1	0.5	0.988
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		16	17			16	17			16	17	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WINDSOR
PLANT : LITTLE RIVER WPCP
WORKS NUMBER : 120001096
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 64000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LITTLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	33.500	136.0	7.0		234.500	180.0	6.0		201.000	4.9	0.7	22.445
FEB	31.800	163.0	9.0		286.200	184.0	9.0		286.200	6.0	0.5	16.536
MAR	34.400	132.0	5.0		172.000	168.0	8.0		275.200	5.0	0.3	11.352
APR	30.400	124.0	4.0		121.600	164.0	8.0		243.200	4.4	0.3	8.208
MAY	30.350	135.0	4.0		121.400	175.0	6.0		182.100	5.0	0.5	14.872
JUN	31.800	127.0	3.0		95.400	203.0	6.0		190.800	5.4	0.5	17.172
JUL	33.500	87.0	2.0		67.000	163.0	7.0		234.500	6.4	0.4	14.740
AUG	33.800	102.0	3.0		101.400	220.0	8.0		270.400	4.6	0.7	21.970
SEP	33.000	156.0	8.0		264.000	267.0	13.0		429.000	5.4	0.4	13.200
OCT	31.900	169.0	6.0		191.400	200.0	13.0		414.700	6.4	0.7	22.330
NOV	31.900	153.0	5.0		159.500	196.0	10.0		319.000	6.0	0.6	19.778
DEC	36.800	90.0	5.0		184.000	146.0	12.0		441.600	3.4	0.4	14.352
AVERAGE:	32.762	131.0	5.1		166.533	189.0	8.8		290.642	5.2	0.5	16.413
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		336	336			336	336			336	336	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILITY EXPANSION AND/OR UPGRADING (PHASE 1)		88/07/01	
PLANT EXPANSION AND/OR UPGRADING (PHASE 2)		90/01/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WINDSOR
PLANT : WESTERLY WPCP
WORKS NUMBER : 120001103
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 163.65 1000 m3
POPULATION SERVED : 123000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	101.000	91.0	31.0	66	3131.000	109.0	21.0	81	2121.000	4.3	0.8	82.820
FEB	95.000	104.0	25.0	76	2375.000	118.0	25.0	79	2375.000	4.2	1.0	90.250
MAR	108.600	90.0	23.0	74	2497.800	127.0	21.0	83	2280.600	4.6	0.9	93.396
APR	128.600	96.0	26.0	73	3343.600	137.0	19.0	86	2443.400	5.0	0.7	93.878
MAY	112.300	93.0	25.0	73	2807.500	149.0	26.0	83	2919.800	3.9	0.7	75.241
JUN	148.000	65.0	19.0	71	2812.000	112.0	23.0	79	3404.000	3.1	0.6	84.360
JUL	142.500	71.0	15.0	79	2137.500	115.0	19.0	83	2707.500	3.6	0.4	59.850
AUG	134.400	70.0	19.0	73	2553.600	95.0	23.0	76	3091.200	4.2	0.5	67.200
SEP	126.300	77.0	27.0	65	3410.100	113.0	23.0	80	2904.900	4.4	0.7	83.358
OCT	112.900	119.0	31.0	74	3499.900	113.0	30.0	73	3387.000	4.7	1.0	116.287
NOV	122.100	86.0	29.0	66	3540.900	94.0	31.0	67	3785.100	4.6	1.0	125.763
DEC	148.700	74.0	20.0	73	2974.000	106.0	19.0	82	2825.300	3.1	0.4	59.480
AVERAGE:	123.367	86.0	24.2	72	2923.575	116.0	23.3	79	2853.733	4.1	0.7	85.990
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		333	334			333	334			333	334	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 50%
SS - YES	SS - 70%
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WINGHAM
PLANT : WINGHAM LAGOON
WORKS NUMBER : 110000828
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAITLAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.60 1000 m3
POPULATION SERVED : 2941

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.940	387.0	24.4		47.336	955.0	9.3		18.042	6.0	3.0	5.742
FEB	1.860	660.0	19.5		36.270	306.0	13.9		25.854	10.1	3.0	5.487
MAR	2.320	93.0	37.0		85.840	135.0	10.5		24.360	4.7	3.2	7.424
APR	2.520	92.0	15.3		38.556	77.0	17.5		44.100	4.1	2.4	6.048
MAY	1.610	89.0	27.0		43.470	108.0	19.6		31.556	4.4	2.6	4.186
JUN	1.780	101.0	15.9		28.302	132.0	20.0		35.600	6.6	2.6	4.557
JUL	1.650	46.0	10.6		17.490	56.0	19.4		32.010	2.9	2.1	3.399
AUG	2.090	53.0	20.5		42.845	59.0	46.8		97.812	3.4	2.6	5.329
SEP	1.862	78.0	17.2		32.026	94.0	30.7		57.163	4.4	3.0	5.493
OCT	1.852	91.0	22.0		40.744	43.0	28.6		52.967	3.3	2.7	5.074
NOV	2.834	179.0	18.7		52.996	99.0	50.0		141.700	5.7	2.1	5.951
DEC	3.095	ND	28.2		87.279	ND	11.4		35.283	ND	2.4	7.273
AVERAGE:	2.118	170.0	21.4		46.096	188.0	23.1		49.704	5.1	2.6	5.497
OBSERVATIONS:	12	11	12			11	12			11	12	
EXCEEDANCES												
NO OF SAMPLES		11	14			11	14			11	14	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WOODSTOCK
PLANT : WOODSTOCK WPCP
WORKS NUMBER : 120000685
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 26183

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	19.480	98.0	10.0		194.800	164.0	11.0		214.280	4.3	0.7	13.636
FEB	16.910	99.0	8.8		148.808	136.0	15.1		255.341	4.9	0.8	14.204
MAR	20.970	82.0	9.4		197.118	133.0	11.6		243.252	4.8	0.9	18.244
APR	25.280	81.0	10.7		270.496	157.0	22.1		558.688	4.8	0.9	22.752
MAY	19.450	103.0	10.3		200.335	209.0	12.0		233.400	3.7	0.8	14.782
JUN	18.940	83.0	9.6		181.824	222.0	14.5		274.630	4.7	0.9	16.667
JUL	20.660	64.0	10.7		221.062	136.0	11.6		239.656	4.3	0.8	15.908
AUG	18.290	107.0	7.9		144.491	269.0	10.5		192.045	4.7	0.9	16.827
SEP	17.820	80.0	8.6		153.252	230.0	9.6		171.072	5.7	1.0	17.820
OCT	18.020	100.0	7.8		140.556	237.0	11.4		205.428	4.9	0.9	15.497
NOV	18.930	91.0	10.1		191.193	226.0	12.1		229.053	5.3	0.9	17.037
DEC	22.640	83.0	8.1		183.384	159.0	12.5		283.000	4.8	0.9	20.150
AVERAGE:	19.783	89.0	9.3		185.610	190.0	12.8		258.320	4.7	0.9	16.960
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		46	49			55	53			45	52	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ZURICH
PLANT : ZURICH LAGOON
WORKS NUMBER : 110001444
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MUN DRAIN TO L. HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.44 1000 m3
POPULATION SERVED : 800

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.490	69.0	ND			135.0	ND			4.3	ND	
FEB	0.458	120.0	ND			275.0	ND			9.2	ND	
MAR	0.582	93.0	ND			192.0	ND			5.9	ND	
APR	0.535	134.0	16.7			165.0	38.1			8.5	2.2	
MAY	0.452	ND	ND			ND	ND			ND	ND	
JUN	0.465	226.0	ND			104.0	ND			7.3	ND	
JUL	0.471	111.0	ND			128.0	ND			5.3	ND	
AUG	0.441	132.0	ND			203.0	ND			6.6	ND	
SEP	0.430	124.0	ND			159.0	ND			6.4	ND	
OCT	0.478	120.0	7.2			108.0	9.9			7.4	1.4	
NOV	0.549	79.0	ND			90.0	ND			5.0	ND	
DEC	0.596	174.0	ND			173.0	ND			8.4	ND	
AVERAGE:	0.496	126.0	12.0		6.188	158.0	24.0		12.558	6.8	1.8	0.923
OBSERVATIONS:12		11	2			11	2			11	2	
EXCEEDANCES												
NO OF SAMPLES		11	7			11	7			11	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

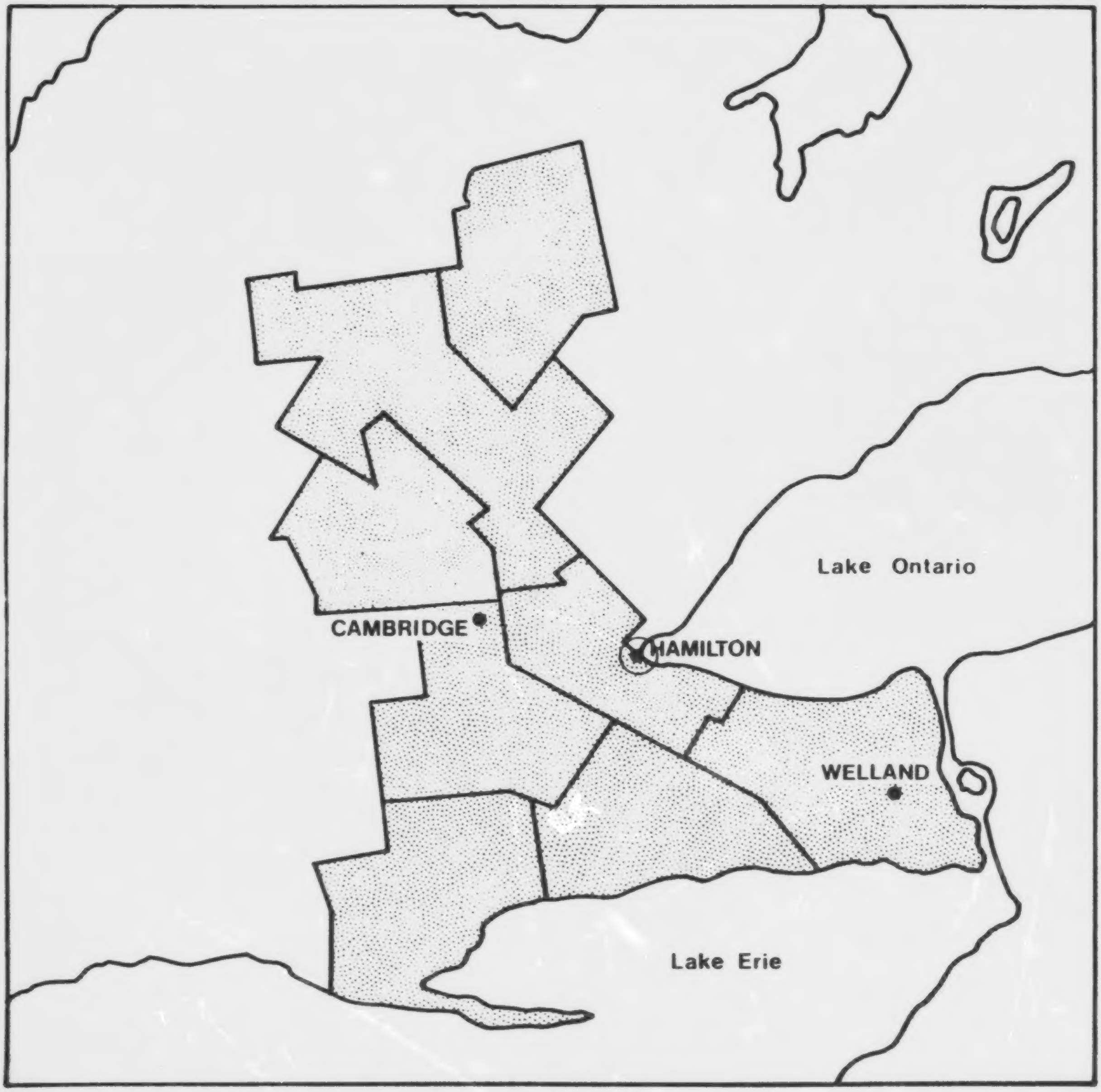
REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

Ministry
of the
Environment

Ontario

West Central Region

②


Lake Ontario
CAMBRIDGE
HAMILTON
WELLAND
Lake Erie

Ministry
of the
Environment
Ontario

West Central Region

②

REGIONAL OFFICE

Hamilton
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7640

DISTRICT OFFICES

Cambridge
400 Clyde Road
P.O. Box 219
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Haldimand-Norfolk/Brant
119 King St. West
P.O. Box 2112
L8N 3Z9
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Hamilton-Wentworth
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7732

Welland
637 - 641 Niagara St. West
L3C 1L9
(416) 384-9896

WEST-CENTRAL SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	1	.000	.227	.227 (.050)
Primary	1	2	3	4.091	74.554	78.645 (17.300)
Conventional Activated Sludge	13	11	24	361.225	670.716	1,031.942 (227.000)
Modified Activated Sludge	0	0	0	.000	.000	.000 (.000)
Contact Stabilization	0	0	0	.000	.000	.000 (.000)
Extended Aeration	6	2	8	11.715	6.950	18.665 (4.106)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	1	0	1	9.319	.000	9.319 (2.050)
Oxidation Ditch	4	0	4	4.509	.00	4.509 (.992)
Aerated Lagoon	1	0	1	.995	.000	.995 (.219)
Conventional Lagoon Continuous	0	1	1	.000	2.291	2.291 (.504)
Conventional Lagoon Seasonal	5	2	7	3.254	1.732	4.986 (1.097)
Conventional Lagoon Annual	2	0	2	.650	.000	.650 (.143)
Lagoon and Spray	0	0	0	.000	.000	.000 (.000)
Aerated Cell Plus Lagoon	2	2	4	4.864	4.977	9.842 (2.165)
Exfiltration Lagoon	0	0	0	.000	.000	.000 (.000)
TOTALS	35	21	56	400.625 (88.127)	761.450 (167.499)	1,162.075 (255.626)

10^3m/d: THOUSANDS OF CUBIC METRES PER DAY

mIgd: MILLION IMPERIAL GALLONS PER DAY

01307-PDR.45

CONVERSION FACTOR

$10^3 m^3/d$ = .220 MIGD

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: ARTHUR	REGION	: WEST CENTRAL
PLANT	: ARTHUR LAGOON	DISTRICT	: CAMBRIDGE
WORKS NUMBER	: 110000882	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH	WATERCOURSE	: CONESTOGA RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ERIE
DESIGN CAPACITY	: 0.98 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 1674		

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.046	166.0	ND			505.0	ND			5.3	ND	
FEB	0.951	140.0	ND			68.0	ND			4.3	ND	
MAR	1.604	101.0	ND			34.0	ND			3.2	ND	
APR	1.500	91.0	12.4			104.0	24.8			7.0	0.4	
MAY	0.923	164.0	ND			90.0	ND			3.1	ND	
JUN	0.892	202.0	ND			113.0	ND			5.0	ND	
JUL	1.050	27.0	ND			41.0	ND			2.1	ND	
AUG	0.967	ND	ND			ND	ND			ND	ND	
SEP	0.887	166.0	ND			109.0	ND			5.5	ND	
OCT	0.956	88.0	3.9			73.0	6.9			5.7	0.5	
NOV	1.256	75.0	13.9			65.0	42.9			3.0	0.6	
DEC	1.335	90.0	ND			76.0	ND			5.4	ND	
AVERAGE:	1.114	119.0	10.1		13.262	116.0	24.9		32.559	4.5	0.5	0.598
OBSERVATIONS:12		11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		11	23			11	23			11	14	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/01/01	88/12/31	
UNDER CONSTRUCTION	88/11/01	89/11/30	90/01/31
ENVIRONMENTAL ASSESSMENT PROCESS	87/09/01	88/03/31	90/01/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	86/01/01	87/12/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRANTFORD
PLANT : AIRPORT WPCP (DISCHARGE TO A TILE FIELD)
WORKS NUMBER : 120004798
TREATMENT : COMMUNAL SEPTIC TANK

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0	0	0.000	0.0	0.0	0	0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRANTFORD
PLANT : BRANTFORD WPCP
WORKS NUMBER : 110000043
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 84.10 1000 m3
POPULATION SERVED : 73000

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	48.700	181.0	14.9		725.630	214.0	13.3		647.710	6.3	1.0	48.700
FEB	46.900	224.0	15.9		745.710	219.0	12.5		586.250	6.2	1.1 *	51.590
MAR	52.400	186.0	15.1		791.240	227.0	9.9		518.760	7.1	0.9	47.160
APR	61.300	183.0	11.0		674.300	183.0	10.3		631.390	5.6	0.8	49.040
MAY	57.300	231.0	16.0		916.800	260.0	14.0		802.200	4.4	1.1 *	63.030
JUN	59.026	239.0	17.8		1050.663	264.0	19.5		1151.007	6.2	1.1 *	64.929
JUL	52.300	213.0	6.1		319.030	249.0	8.5		444.550	6.1	0.9	47.070
AUG	48.700	233.0	13.2		642.840	245.0	9.5		462.650	7.7	0.9	43.830
SEP	48.000	242.0	11.3		542.400	262.0	9.2		441.600	6.6	0.8	38.400
OCT	47.900	303.0	16.8		804.720	277.0	11.1		531.690	8.3	1.0	47.900
NOV	50.300	306.0	14.1		709.230	229.0	9.7		487.910	7.0	1.0	50.300
DEC	52.400	249.0	8.1		424.440	205.0	7.3		382.520	6.3	0.9	47.160
AVERAGE:	52.102	232.0	13.4		695.584	236.0	11.2		590.686	6.5	1.0	49.926
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		85	84			224	223			77	214	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRANTFORD
PLANT : CAINSVILLE LAGOON (SERVES INDUSTRY)
WORKS NUMBER : 120004716
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.16 1000 m3
POPULATION SERVED : 65

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FAIRCHILD CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	15.1			ND	21.3			ND	0.5	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	15.1		0.000	0.0	21.3		0.000	0.0	0.5	0.000
OBSERVATIONS:	0	0	1			0	1			0	1	
EXCEEDANCES												
NO OF SAMPLES		0	1			0	1			0	1	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CAMBRIDGE
PLANT : GALT WPCP
WORKS NUMBER : 110000276
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 38.64 1000 m3
POPULATION SERVED : 44966

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	28.820	172.0	12.7		366.014	207.0	18.9		544.698	5.9	0.6	17.292
FEB	29.230	159.0	15.5		453.065	183.0	20.0		584.600	6.8	0.7	20.461
MAR	31.650	170.0	10.0		316.500	183.0	14.5		458.925	7.4	0.7	22.155
APR	34.893	134.0	11.7		408.248	167.0	13.8		481.523	5.6	0.7	24.425
MAY	31.409	163.0	9.7		304.667	167.0	11.3		354.922	5.4	0.6	18.845
JUN	29.750	143.0	10.1		300.475	178.0	12.1		359.975	6.1	0.8	23.800
JUL	30.127	173.0	13.7		412.740	171.0	12.6		379.600	5.9	0.7	21.089
AUG	32.840	138.0	10.5		344.820	145.0	15.1		495.884	5.8	0.9	29.556
SEP	33.604	156.0	12.1		406.608	171.0	13.9		467.096	5.7	0.9	30.244
OCT	31.560	159.0	13.4		422.904	199.0	18.0		568.080	6.7	0.8	25.248
NOV	31.079	190.0	14.9		463.077	198.0	18.4		571.854	6.9	0.7	21.755
DEC	30.530	172.0	15.0		457.950	190.0	17.0		519.010	4.9	0.7	21.371
AVERAGE:	31.291	161.0	12.4		388.089	180.0	15.5		482.181	6.1	0.7	23.020
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		123	119			225	338			117	227	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CAMBRIDGE
PLANT : HESPELER WPCP
WORKS NUMBER : 110001033
TREATMENT : HIGH RATE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 9.31 1000 m3
POPULATION SERVED : 10110

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SPEED RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	4.920	112.0	17.7		87.084	163.0	16.3		80.196	5.6	0.9	4.280
FEB	4.980	121.0	19.3		96.114	201.0	20.9		104.082	5.6	1.0	4.930
MAR	5.440	117.0	16.9		91.936	183.0	15.5		84.320	4.4	0.8	4.080
APR	6.250	117.0	14.5		90.625	157.0	25.8		161.250	5.1	0.9	5.875
MAY	5.140	84.0	24.9		127.986	142.0	19.9		102.286	4.6	1.0	4.986
JUN	5.110	183.0	14.3		73.073	121.0	15.6		79.716	5.8	0.8	4.292
JUL	5.360	143.0	9.6		51.456	115.0	8.6		46.096	2.8	0.5	2.573
AUG	5.390	125.0	5.2		28.028	314.0	11.0		59.290	4.6	0.8	4.528
SEP	5.400	131.0	14.7		79.380	149.0	12.1		65.340	5.5	0.9	4.806
OCT	4.870	155.0	10.5		51.135	131.0	17.2		83.764	6.2	0.7	3.166
NOV	5.420	135.0	25.4		137.668	163.0	28.3		153.386	6.0	2.5 *	13.279
DEC	5.250	93.0	16.5		86.625	109.0	18.1		95.025	6.3	1.9 *	10.027
AVERAGE:	5.294	126.0	15.8		83.426	162.0	17.4		92.896	5.2	1.0	5.569
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		49	43			48	47			49	65	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PLANT DESIGN PROBLEMS			
UNDER CONSTRUCTION	87/05/01	90/01/01	
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	87/05/01	88/07/31	
UPGRADING COMPLETED	87/05/01	88/07/31	90/09/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CAMBRIDGE
PLANT : PRESTON WPCP
WORKS NUMBER : 110000622
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 16.86 1000 m3
POPULATION SERVED : 19673

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	8.520	588.0	10.8		92.016	1233.0	16.0		136.320	5.1	0.6	5.112
FEB	8.300	527.0	15.1		125.330	691.0	15.2		126.160	4.3	0.6	4.897
MAR	9.310	476.0	13.0		121.030	565.0	11.2		104.272	5.0	0.7	6.238
APR	10.090	480.0	10.7		107.963	411.0	12.1		122.089	3.1	0.5	4.742
MAY	8.470	745.0	16.0		135.520	586.0	18.1		153.307	6.0	0.9	7.454
JUN	8.250	580.0	5.7		47.025	442.0	9.8		80.850	5.5	0.8	6.847
JUL	7.880	362.0	7.7		60.676	263.0	10.4		81.952	5.1	0.5	3.546
AUG	8.800	249.0	18.4		161.920	238.0	15.8		139.040	4.3	0.4	3.168
SEP	8.740	509.0	6.6		57.684	316.0	18.3		159.942	4.0	0.7	5.856
OCT	8.190	620.0	12.0		98.280	332.0	23.7		194.103	3.9	0.7	5.487
NOV	8.340	543.0	11.1		92.574	334.0	11.2		93.408	6.5	0.7	5.421
DEC	8.550	541.0	8.8		75.240	399.0	9.4		80.370	7.0	0.6	5.301
AVERAGE:	8.620	518.0	11.3		97.938	484.0	14.3		122.651	5.0	0.6	5.339
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		75	75			369	382			102	107	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES — START DATE — END DATE — ANTICIPATED COMPLIANCE

NONE

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DELHI
PLANT : DELHI WPCP
WORKS NUMBER : 120001425
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.18 1000 m3
POPULATION SERVED : 3839

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BIG CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.240	160.0	5.7		12.768	166.0	6.6		14.784	8.2	0.2	0.336
FEB	2.100	167.0	6.0		12.600	157.0	7.7		16.170	7.2	0.2	0.462
MAR	2.210	145.0	10.2		22.542	131.0	9.7		21.437	7.7	0.3	0.552
APR	2.340	180.0	6.4		14.976	158.0	5.4		12.636	7.0	0.2	0.398
MAY	2.310	117.0	8.6		19.866	124.0	6.0		13.860	6.3	0.1	0.139
JUN	2.210	462.0	6.4		14.144	230.0	3.8		8.398	8.4	0.1	0.287
JUL	2.150	104.0	2.8		6.020	97.0	4.9		10.535	5.6	0.1	0.279
AUG	2.150	104.0	10.0		21.500	94.0	2.1		4.515	8.6	0.1	0.129
SEP	2.300	127.0	20.0		46.000	115.0	8.2		18.860	7.1	0.3	0.621
OCT	2.270	178.0	12.0		27.240	137.0	6.4		14.528	11.5	0.4	0.863
NOV	2.390	148.0	12.8		30.592	114.0	7.3		17.447	10.6	0.5	1.076
DEC	2.470	123.0	8.4		20.748	115.0	6.6		16.302	5.8	0.2	0.519
AVERAGE:	2.262	168.0	9.1		20.750	136.0	6.2		14.123	7.8	0.2	0.472
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DRAYTON
PLANT : DRAYTON LAGOON
WORKS NUMBER : 120001782
TREATMENT : CONVENTIONAL LAGOON ANNUAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.55 1000 m3
POPULATION SERVED : 0

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CONESTOGO RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.143	452.0	ND			590.0	ND			11.2	ND	
FEB	0.181	1000.0	ND			680.0	ND			11.6	ND	
MAR	0.256	748.0	ND			988.0	ND			6.0	ND	
APR	0.224	587.0	ND			624.0	ND			11.6	ND	
MAY	0.192	161.0	ND			187.0	ND			8.7	ND	
JUN	0.205	219.0	ND			175.0	ND			11.1	ND	
JUL	0.216	175.0	ND			107.0	ND			4.2	ND	
AUG	0.219	40.0	ND			ND	ND			3.8	ND	
SEP	0.206	ND	ND			ND	ND			ND	ND	
OCT	0.234	581.0	ND			350.0	ND			10.5	ND	
NOV	0.273	211.0	2.6			452.0	11.6			8.0	0.1	
DEC	0.266	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.218	417.0	2.6		0.710	461.0	11.6		3.167	8.7	0.1	0.033
OBSERVATIONS:12		10	1			9	1			10	1	
EXCEEDANCES												
NO OF SAMPLES		10	13			9	12			10	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUNDAS
PLANT : DUNDAS KING ST.WPCP
WORKS NUMBER : 120001372
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 19501

REGION : WEST CENTRAL
DISTRICT : HAMILTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COOTES PARADISE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	12.644	227.0	6.0		75.864	148.0	3.0		37.932	5.7	0.2	2.529
FEB	11.181	170.0	5.0		55.905	163.0	4.0		44.724	5.8	0.4	4.472
MAR	12.013	135.0	5.0		60.065	142.0	5.0		60.065	5.2	0.2	2.403
APR	15.173	90.0	5.0		75.865	105.0	4.0		60.692	4.0	0.3	4.552
MAY	11.076	104.0	4.0		44.304	130.0	8.0		88.608	5.6	1.4 *	15.506
JUN	10.665	216.0	6.0		63.990	225.0	4.0		42.660	7.6	0.7	7.465
JUL	11.114	67.0	5.0		55.570	137.0	12.0		133.368	5.3	0.3	3.334
AUG	14.092	141.0	10.0		140.920	158.0	4.0		56.368	5.5	0.4	5.355
SEP	13.108	193.0	11.0		144.188	176.0	4.0		52.432	7.0	0.4	5.243
OCT	12.288	195.0	5.0		61.440	185.0	2.0		24.576	6.7	0.4	4.915
NOV	14.149	208.0	12.0		169.788	182.0	3.2		45.277	6.1	0.5	7.074
DEC	15.799	160.0	8.0		126.392	136.0	3.0		47.397	4.7	0.3	4.740
AVERAGE:	12.775	159.0	6.8		89.524	157.0	4.7		57.842	5.8	0.5	5.632
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		82	179			83	180			83	187	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PROCESS UPGRADING			88/09/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUNNVILLE
PLANT : DUNNVILLE WPCP
WORKS NUMBER : 120001443
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 7.72 1000 m3
POPULATION SERVED : 5471

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.970	49.0	7.2		35.784	206.0	12.1		60.137	5.4	0.8	4.125
FEB	4.480	240.0	7.5		33.600	269.0	28.9		129.472	7.9	0.9	3.853
MAR	5.100	514.0	9.9		50.490	310.0	26.5		135.150	5.1	0.8	3.978
APR	5.980	32.0	20.7		123.786	168.0	26.3		157.274	4.0	0.8	4.963
MAY	3.800	293.0	30.4		115.520	192.0	15.3		58.140	4.1	0.8	2.850
JUN	3.900	53.0	60.1		234.390	256.0	14.4		56.160	6.1	0.8	3.003
JUL	4.200	94.0	6.3		26.460	140.0	11.4		47.880	5.2	0.8	3.402
AUG	4.700	49.0	8.4		39.480	170.0	11.2		52.640	4.4	0.7	3.196
SEP	5.260	68.0	8.3		43.658	201.0	12.3		64.698	4.1	0.8	4.208
OCT	4.700	207.0	13.1		61.570	176.0	16.0		75.200	4.1	0.9	4.371
NOV	4.400	142.0	5.6		24.640	223.0	15.0		66.000	4.4	0.7	3.124
DEC	5.800	153.0	36.0		208.800	205.0	21.4		124.120	6.7	0.8	4.350
AVERAGE:	4.774	158.0	17.8		83.182	210.0	17.6		85.573	5.1	0.8	3.785
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		15	14			91	70			83	69	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUNNVILLE
PLANT : OSWEGO PARK LAGOON
WORKS NUMBER : 110003068
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OSWEGO CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.09 1000 m3
POPULATION SERVED : 250

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.170	141.0	ND			118.0	ND			7.8	ND	
FEB	0.260	158.0	ND			123.0	ND			9.3	ND	
MAR	0.290	130.0	ND			225.0	ND			12.2	ND	
APR	0.190	187.0	19.5			57.0	28.6			8.6	4.8	
MAY	0.150	334.0	ND			284.0	ND			17.2	ND	
JUN	0.300	220.0	ND			137.0	ND			9.4	ND	
JUL	0.130	190.0	ND			310.0	ND			13.2	ND	
AUG	0.170	ND	ND			ND	ND			ND	ND	
SEP	0.180	186.0	ND			99.0	ND			13.8	ND	
OCT	0.140	253.0	ND			269.0	ND			16.8	ND	
NOV	0.190	ND	10.6			ND	40.8			ND	6.1	
DEC	0.110	98.0	ND			57.0	ND			5.0	ND	
AVERAGE:	0.190	190.0	15.1		2.860	168.0	34.7		6.593	11.3	5.5	1.036
OBSERVATIONS:12		10	2			10	2			10	2	
EXCEEDANCES												
NO OF SAMPLES		10	6			10	6			10	6	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ELORA
PLANT : ELORA WPCP
WORKS NUMBER : 110000178
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.06 1000 m3
POPULATION SERVED : 3129

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.077	113.0	5.9		6.354	139.0	4.9		5.277	7.9	0.3	0.323
FEB	1.055	89.0	3.1		3.270	125.0	5.8		6.119	5.3	0.3	0.316
MAR	1.308	113.0	32.0		41.856	174.0	12.0		15.696	4.9	0.3	0.392
APR	1.453	476.0	2.5		3.633	163.0	7.1		10.316	20.5	0.7	1.017
MAY	0.991	131.0	3.4		3.369	127.0	5.2		5.153	7.7	0.5	0.495
JUN	0.972	125.0	5.4		5.249	107.0	3.4		3.305	6.4	0.9	0.875
JUL	1.019	ND	ND		ND	111.0	3.0		3.057	ND	0.2	0.204
AUG	1.047	ND	ND		ND	143.0	3.0		3.141	ND	0.2	0.209
SEP	1.100	ND	ND		ND	131.0	2.3		2.530	ND	0.2	0.220
OCT	1.097	100.0	0.9		0.987	153.0	2.5		2.743	9.5	0.5	0.548
NOV	1.066	168.0	0.9		0.959	166.0	3.6		3.838	8.9	0.7	0.746
DEC	1.153	150.0	7.6		8.763	151.0	4.0		4.612	7.6	0.4	0.461
AVERAGE:	1.112	163.0	6.9		8.271	141.0	4.7		5.482	8.7	0.4	0.484
OBSERVATIONS:	12	9	9			12	12			9	12	
EXCEEDANCES												
NO OF SAMPLES		9	22			162	162			9	163	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FERGUS
PLANT : FERGUS WPCP
WORKS NUMBER : 110000249
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.00 1000 m3
POPULATION SERVED : 6050

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.048	113.0	16.5		66.792	109.0	21.9		88.651	5.1	0.5	2.024
FEB	3.640	175.0	33.5		121.940	126.0	30.6		111.384	6.5	0.6	2.184
MAR	5.500	119.0	20.0		110.000	137.0	42.0		231.000	4.1	0.5	2.750
APR	5.810	68.0	8.4		48.804	154.0	32.1		186.501	3.1	0.5	2.905
MAY	3.700	99.0	8.8		32.560	190.0	23.0		85.100	5.1	0.6	2.220
JUN	3.550	115.0	6.2		22.010	300.0	10.3		36.565	4.1	0.4	1.420
JUL	3.413	86.0	7.7		26.280	135.0	16.2		55.291	4.9	0.6	2.048
AUG	3.520	130.0	8.3		29.216	193.0	29.1		102.432	5.4	0.7	2.464
SEP	3.320	87.0	6.4		21.248	218.0	30.0		99.600	5.6	0.7	2.324
OCT	3.540	127.0	7.3		25.842	204.0	25.0		88.500	5.1	0.6	2.124
NOV	4.380	143.0	23.1		101.178	206.0	39.9		174.762	5.3	0.6	2.628
DEC	5.030	128.0	23.1		116.193	159.0	40.4		203.212	6.6	0.7	3.521
AVERAGE:	4.121	116.0	14.1		60.172	178.0	28.4 *		121.917	5.1	0.6	2.384
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	23			94	279			20	385	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/07/01	89/08/01	
UNDER CONSTRUCTION	89/12/01	91/06/30	91/09/30
ENVIRONMENTAL ASSESSMENT PROCESS	87/11/01	88/09/30	
ENFORCING BY-LAWS	87/11/01	89/01/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: FLAMBOROUGH	REGION	: WEST CENTRAL
PLANT	: WATERDOWN WPCP	DISTRICT	: HAMILTON
WORKS NUMBER	: 120005001	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING	WATERCOURSE MAJOR BASIN MINOR BASIN	: GRINDSTONE CREEK : GREAT LAKES : LAKE ONTARIO
DESIGN CAPACITY	: 2.72 1000 m^3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 3900		

1987	AVG DAY FLOW (1000 m^3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.180	196.0	2.8		6.104	156.0	0.5		1.090	5.8	0.1	0.305
FEB	1.992	163.0	3.0		5.976	152.0	0.9		1.793	6.2	0.3	0.578
MAR	2.417	118.0	1.1		2.659	178.0	1.8		4.351	5.8	0.5	1.208
APR	3.080	101.0	2.4		7.392	158.0	1.0		3.080	5.1	0.4	1.232
MAY	2.221	130.0	1.2		2.665	147.0	0.7		1.555	6.4	0.6	1.333
JUN	2.100	175.0	3.0		6.300	187.0	4.0		8.400	5.9	1.2 *	2.520
JUL	2.021	133.0	5.0		10.105	193.0	3.0		6.063	7.5	0.8	1.617
AUG	2.105	179.0	3.3		6.946	168.0	1.6		3.368	6.1	0.8	1.684
SEP	1.951	207.0	6.6		12.877	178.0	1.0		1.951	7.9	0.8	1.561
OCT	2.092	151.0	1.7		3.556	166.0	0.8		1.674	7.1	0.6	1.255
NOV	2.147	209.0	5.8		12.453	174.0	1.3		2.791	6.2	0.5	1.073
DEC	2.618	163.0	2.5		6.545	136.0	1.0		2.618	5.5	0.2	0.471
AVERAGE:	2.244	160.0	3.2		6.965	166.0	1.5		3.228	6.3	0.6	1.236
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		94	187			94	187			88	201	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION			88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FORT ERIE
PLANT : ANGER AVE.WPCP
WORKS NUMBER : 120001292
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 16.36 1000 m3
POPULATION SERVED : 13765

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIAGARA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	52.0	25.8	50	ND	49.0	18.6	62	ND	2.7	0.6	ND
FEB	1.552	ND	ND	0	ND	63.0	21.6	66	33.523	3.8	0.7	1.009
MAR	17.516	219.0	62.0	72	1085.992	65.0	30.9	52	541.244	2.9	1.2 *	20.844
APR	20.630	54.0	38.7	28	798.381	55.0	25.7	53	530.191	2.1	0.8	15.679
MAY	11.565	71.0	66.6	6	770.229	88.0	24.4	72	282.186	4.0	0.9	9.946
JUN	8.897	105.0	48.7	54	433.284	111.0	27.4	75	243.778	19.2	0.8	6.762
JUL	7.537	57.0	53.9	5	406.244	61.0	12.2	80	91.951	3.9	0.8	5.653
AUG	7.650	150.0	62.0	59	474.300	86.0	26.1	70	199.665	2.7	0.8	6.426
SEP	9.847	86.0	34.8	60	342.676	118.0	22.8	81	224.512	4.6	0.6	5.613
OCT	8.765	124.0	46.3	63	405.820	134.0	23.7	82	207.731	4.5	0.6	4.908
NOV	10.233	153.0	50.7	67	518.813	94.0	25.5	73	260.942	3.5	1.0	10.233
DEC	14.223	85.0	24.5	71	348.464	58.0	23.5	59	334.240	3.7	0.7	9.956
AVERAGE:	10.765	105.0	46.7	49 *	558.420	82.0	23.5	69 *	268.178	4.8	0.8	8.821
OBSERVATIONS:	11	11	11			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		18	17			161	158			54	60	

COMPLIANCE :

BOD - NO
SS - NO
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	86/01/01	88/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FORT ERIE
PLANT : CRYSTAL BEACH WPCP
WORKS NUMBER : 120001283
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.88 1000 m3
POPULATION SERVED : 4095

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	51.0	15.4		ND	65.0	6.9		ND	2.5	0.5	ND
FEB	4.201	72.0	21.8		91.582	86.0	25.0		105.025	3.0	1.2 *	5.041
MAR	5.105	53.0	19.1		97.506	77.0	24.6		125.583	3.2	0.9	4.748
APR	6.260	55.0	10.8		67.608	81.0	12.8		80.128	2.3	1.0	5.947
MAY	3.778	108.0	8.1		30.602	202.0	61.8		233.480	3.9	0.8	3.098
JUN	ND	71.0	9.1		ND	150.0	24.4		ND	4.3	0.8	ND
JUL	ND	87.0	65.4		ND	160.0	60.7		ND	4.5	3.5 *	ND
AUG	ND	67.0	16.0		ND	103.0	16.3		ND	3.9	0.6	ND
SEP	3.314	80.0	28.4		94.118	196.0	40.0		132.560	4.8	1.4 *	4.640
OCT	2.787	120.0	18.8		52.396	152.0	43.8		122.071	5.1	2.0 *	5.435
NOV	3.060	90.0	42.3		129.438	159.0	46.7		142.902	4.5	2.1 *	6.273
DEC	5.859	44.0	22.4		131.242	69.0	21.1		123.625	2.2	0.8	4.922
AVERAGE:	4.295	75.0	23.1		86.811	125.0	32.0 *		133.172	3.7	1.3 *	5.013
OBSERVATIONS:	8	12	12			12	12			12	12	
EXCEEDANCES											5	
NO OF SAMPLES		57	57			200	188			112	110	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	82/01/01	90/12/31	
SEWER SEPARATION UNDERWAY	82/01/01	90/12/31	
SEWER REPAIR UNDERWAY	82/01/01	90/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FORT ERIE
PLANT : STEVENSVILLE-DOUGLASTOWN LAGOON
WORKS NUMBER : 120003110
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIAGARA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 2.29 1000 m3
POPULATION SERVED : 1500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.550	69.0	4.7		2.585	65.0	5.1		2.805	4.4	0.9	0.506
FEB	0.524	119.0	16.2		8.489	68.0	22.4		11.738	5.3	1.6	0.828
MAR	0.707	ND	8.4		5.939	ND	11.0		7.777	ND	1.7	1.230
APR	0.745	64.0	8.8		6.556	63.0	33.1		24.660	3.9	1.3	0.961
MAY	0.574	115.0	12.7		7.290	303.0	8.6		4.936	4.5	1.9	1.079
JUN	0.512	226.0	17.5		8.960	102.0	17.3		8.858	6.5	0.9	0.435
JUL	0.491	34.0	21.0		10.311	57.0	15.2		7.463	2.6	1.4	0.687
AUG	0.473	198.0	2.1		0.993	127.0	1.5		0.710	ND	1.4	0.662
SEP	0.565	95.0	9.2		5.198	41.0	8.4		4.746	4.5	1.3	0.740
OCT	0.528	70.0	8.2		4.330	84.0	6.1		3.221	8.0	1.2	0.634
NOV	0.537	28.0	8.3		4.457	23.0	3.1		1.665	3.1	0.5	0.274
DEC	0.665	72.0	3.2		2.128	36.0	3.6		2.394	4.1	0.6	0.372
AVERAGE:	0.573	99.0	10.0		5.603	88.0	11.3		6.748	4.7	1.2	0.701
OBSERVATIONS:12		11	12			11	12			10	12	
EXCEEDANCES												
NO OF SAMPLES		25	26			25	26			24	26	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GRAND VALLEY
PLANT : GRAND VALLEY WPCP
WORKS NUMBER : 110000301
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.60 1000 m3
POPULATION SERVED : 1020

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.310	223.0	6.5		2.015	209.0	11.5		3.565	13.7	[illegible].3	0.093
FEB	0.270	204.0	9.3		2.511	180.0	9.0		2.646	8.1	0.3	0.081
MAR	0.580	103.0	4.5		2.610	125.0	9.1		5.278	6.9	0.3	0.174
APR	0.740	127.0	3.8		2.812	76.0	7.5		5.550	4.7	0.4	0.296
MAY	0.338	177.0	4.9		1.656	165.0	7.1		2.400	9.1	0.6	0.203
JUN	0.284	170.0	1.8		0.511	169.0	6.2		1.761	7.3	0.6	0.170
JUL	0.295	206.0	1.5		0.443	166.0	5.9		1.740	6.1	0.4	0.118
AUG	0.263	204.0	4.1		1.078	175.0	5.6		1.473	8.8	0.4	0.105
SEP	0.267	230.0	2.4		0.641	189.0	7.2		1.922	10.4	0.5	0.134
OCT	0.265	275.0	1.2		0.318	177.0	5.3		1.405	7.4	0.4	0.106
NOV	0.310	190.0	1.9		0.589	244.0	4.5		1.395	9.3	0.4	0.124
DEC	0.443	200.0	4.2		1.861	106.0	10.0		4.430	4.7	0.2	0.089
AVERAGE:	0.364	192.0	3.8		1.420	165.0	7.5		2.797	8.0	0.4	0.141
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		69	28			72	71			24	157	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE	88/02/01	88/09/30	89/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GRIMSBY
PLANT : BAKER ROAD WPCP
WORKS NUMBER : 120001684
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 19850

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	174.0	20.7		ND	168.0	17.9		ND	4.6	0.6	ND
FEB	10.901	258.0	28.5		310.678	170.0	10.7		116.641	6.3	0.4	4.360
MAR	12.001	219.0	26.3		315.626	178.0	12.2		146.412	7.4	0.5	5.520
APR	18.202	154.0	28.0		509.656	139.0	13.8		251.188	4.7	0.5	8.919
MAY	9.624	247.0	25.7		247.337	211.0	17.4		167.458	6.6	0.9	8.373
JUN	11.010	214.0	8.0		88.080	238.0	12.1		133.221	7.7	0.5	4.955
JUL	11.165	158.0	14.6		163.009	375.0	8.9		99.368	6.5	0.4	4.131
AUG	11.206	79.0	10.3		115.422	228.0	8.5		95.251	7.3	1.0	10.870
SEP	11.420	148.0	9.0		102.780	232.0	8.6		98.212	6.5	0.8	9.593
OCT	10.733	253.0	12.5		134.162	273.0	7.1		76.204	13.1	0.3	3.113
NOV	22.657	280.0	34.0		770.338	311.0	7.0		158.599	11.2	0.3	6.571
DEC	14.606	135.0	29.9		436.719	141.0	8.4		122.690	6.1	0.3	4.820
AVERAGE:	13.048	193.0	20.6		290.346	222.0	11.0		133.204	7.3	0.5	6.475
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		58	57			375	376			43	68	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GRIMSBY
PLANT : BIGGAR LAGOON
WORKS NUMBER : 120001256
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE

DESIGN CAPACITY : 1.13 1000 m3
POPULATION SERVED : 1075

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.872	385.0	8.3		7.238	121.0	5.3		4.622	3.9	1.4	1.195
FEB	0.856	305.0	14.8		12.669	94.0	5.7		4.879	4.2	1.6	1.344
MAR	0.908	191.0	19.9		18.069	67.0	6.1		5.539	5.8	1.4	1.289
APR	1.459	181.0	15.4		22.469	91.0	6.5		9.484	4.3	0.8	1.167
MAY	0.705	209.0	6.7		4.723	133.0	8.0		5.640	8.0	1.2	0.867
JUN	0.846	230.0	4.0		3.384	115.0	5.5		4.653	6.9	0.6	0.482
JUL	0.950	115.0	6.9		6.555	68.0	2.6		2.470	3.1	0.8	0.788
AUG	1.064	778.0	6.9		7.342	150.0	4.0		4.256	5.6	0.6	0.628
SEP	1.887	617.0	4.7		8.869	300.0	3.9		7.359	8.0	0.7	1.245
OCT	1.491	298.0	5.0		7.455	130.0	6.4		9.542	9.8	3.7	5.457
NOV	0.977	320.0	17.6		17.195	157.0	11.2		10.942	5.8	5.8	5.706
DEC	1.100	151.0	7.0		7.700	87.0	10.6		11.660	4.8	3.3	3.641
AVERAGE:	1.093	315.0	9.8		10.306	126.0	6.3		6.754	5.9	1.8	1.984
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		111	111			166	164			79	77	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PHASING OUT EXISTING FACILITIES		90/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GUELPH
PLANT : GUELPH WPCP
WORKS NUMBER : 120003094
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 54.55 1000 m3
POPULATION SERVED : 82000

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SPEED RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	44.025	163.0	17.3		761.633	137.0	8.0		352.200	6.2	0.6	28.176
FEB	42.477	172.0	15.4		654.146	170.0	13.7		581.935	4.8	0.7	27.610
MAR	47.269	183.0	12.0		567.228	203.0	17.0		803.573	5.5	0.6	28.361
APR	52.848	170.0	22.0		1162.656	248.0	28.0		1479.744	4.2	0.8	39.636
MAY	42.916	184.0	23.0		987.068	220.0	16.0		686.656	5.7	0.8	34.333
JUN	42.229	191.0	12.3		519.417	200.0	8.9		375.838	5.4	0.6	24.493
JUL	41.560	171.0	9.6		398.976	219.0	7.9		328.324	6.1	0.4	14.962
AUG	41.618	154.0	8.5		353.753	187.0	11.8		491.092	4.8	0.4	17.896
SEP	42.724	197.0	16.0		683.584	209.0	10.9		465.692	6.7	0.5	20.935
OCT	39.735	210.0	9.5		377.483	252.0	10.3		409.271	5.1	0.6	24.636
NOV	40.838	210.0	11.6		473.721	243.0	11.0		449.218	5.4	0.7	30.220
DEC	42.787	188.0	11.5		492.050	197.0	10.3		440.706	4.6	0.5	20.538
AVERAGE:	43.419	183.0	14.1		619.310	207.0	12.8		572.021	5.4	0.6	25.983
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		49	70			216	215			217	215	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW	87/04/30	88/05/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HALDIMAND
PLANT : CALEDONIA WPCP
WORKS NUMBER : 120001452
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.27 1000 m3
POPULATION SERVED : 4237

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.070	191.0	24.8		51.336	192.0	21.3		44.091	7.2	0.9	1.759
FEB	2.027	142.0	10.1		20.473	218.0	15.8		32.027	7.5	0.8	1.703
MAR	2.389	137.0	28.0		66.892	125.0	14.9		35.596	6.2	0.7	1.553
APR	2.875	100.0	26.7		76.763	95.0	38.9		111.837	4.1	1.6 *	4.456
MAY	2.084	148.0	9.1		18.964	169.0	13.2		27.509	7.0	0.6	1.292
JUN	2.190	108.0	15.9		34.821	178.0	12.9		28.251	6.0	0.6	1.248
JUL	2.263	74.0	6.3		14.257	144.0	9.7		21.951	5.2	0.6	1.290
AUG	2.400	129.0	11.4		27.360	139.0	8.4		20.160	7.7	1.0	2.280
SEP	2.156	139.0	12.0		25.872	117.0	7.9		17.032	7.3	0.7	1.401
OCT	2.547	134.0	17.7		45.082	158.0	15.5		39.479	6.1	0.6	1.605
NOV	2.142	117.0	19.3		41.341	205.0	24.5		52.479	6.2	0.7	1.521
DEC	2.587	112.0	11.8		30.527	221.0	20.6		53.292	6.0	0.6	1.578
AVERAGE:	2.311	128.0	16.1		37.807	163.0	17.0		40.309	6.4	0.8	1.807
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		24	29			23	28			23	29	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE			
FINAL DESIGN PHASE			
UNDER CONSTRUCTION			
CONSTRUCTION COMPLETED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HALDIMAND
PLANT : CAYUGA WPCP
WORKS NUMBER : 110000089
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.90 1000 m3
POPULATION SERVED : 1049

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.431	72.0	7.0		3.017	78.0	3.6		1.552	5.6	0.2	0.086
FEB	0.431	256.0	5.3		2.284	273.0	5.0		2.155	8.9	0.2	0.086
MAR	0.556	116.0	5.6		3.114	84.0	3.7		2.057	5.6	0.2	0.111
APR	0.853	58.0	16.3		13.904	63.0	19.0		16.207	3.8	1.0	0.853
MAY	0.395	145.0	2.1		0.830	114.0	6.8		2.686	7.9	0.4	0.158
JUN	0.356	86.0	3.2		1.139	80.0	6.4		2.278	6.6	0.5	0.178
JUL	0.360	96.0	1.4		0.504	87.0	6.2		2.232	6.1	0.4	0.144
AUG	0.405	68.0	2.9		1.175	87.0	6.2		2.511	5.9	0.6	0.243
SEP	0.420	87.0	3.3		1.386	96.0	5.4		2.268	7.2	0.2	0.084
OCT	0.474	91.0	2.2		1.043	235.0	ND		ND	18.9	0.2	0.095
NOV	0.593	73.0	3.1		1.838	167.0	16.2		9.607	6.2	1.0	0.593
DEC	0.659	91.0	4.5		2.966	80.0	6.9		4.547	4.6	0.2	0.132
AVERAGE:	0.494	103.0	4.7		2.767	120.0	7.8		4.373	7.3	0.4	0.230
OBSERVATIONS:	12	12	12			12	11			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	25			22	21			24	24	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: HALDIMAND	REGION	: WEST CENTRAL
PLANT	: HAGERSVILLE WPCP	DISTRICT	: HALDIMAND-NORFOLK/BRANT
WORKS NUMBER	: 110001024	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: SANDUSK CREEK
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ERIE
DESIGN CAPACITY	: 1.00 1000 m3	IJC DESIGNATION	: INDIRECT
POPULATION SERVED	: 2362		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.440	109.0	15.7		22.608	81.0	15.0		21.600	9.9	1.1 *	1.627
FEB	1.100	145.0	19.4		21.340	96.0	13.6		14.960	6.2	0.9	0.968
MAR	1.390	210.0	5.6		7.784	166.0	14.3		19.877	8.6	0.4	0.486
APR	1.500	114.0	6.0		9.000	62.0	9.0		13.500	4.0	0.4	0.540
MAY	0.794	264.0	9.1		7.225	111.0	15.4		12.228	6.3	1.0	0.818
JUN	0.815	189.0	23.0		18.745	117.0	12.0		9.780	9.4	1.4 *	1.117
JUL	0.732	212.0	25.0		18.300	129.0	5.0		3.660	8.0	0.6	0.403
AUG	0.834	456.0	24.3		20.266	148.0	13.8		11.509	17.9	0.9	0.759
SEP	0.816	217.0	9.9		8.078	102.0	9.9		8.078	6.7	1.1 *	0.898
OCT	0.832	134.0	12.3		10.234	103.0	11.5		9.568	6.4	1.1 *	0.890
NOV	0.995	223.0	3.9		3.881	167.0	9.2		9.154	9.0	0.3	0.269
DEC	1.610	152.0	3.1		4.991	85.0	5.1		8.211	3.9	0.2	0.241
AVERAGE:	1.072	202.0	13.1		12.704	114.0	11.2		11.844	8.0	0.8	0.751
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											4	
NO OF SAMPLES		23	21			23	22			23	22	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/12/31		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAMILTON
PLANT : WOODWARD AVE.WPCP (OFFSITE CHEM.ADDN)
WORKS NUMBER : 120001504
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 409.14 1000 m3
POPULATION SERVED : 300000

REGION : WEST CENTRAL
DISTRICT : HAMILTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : REDHILL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	288.671	258.0	49.0		14144.879	741.0	12.0		3464.052	9.2	0.6	173.203
FEB	289.126	263.0	19.9		5753.607	714.0	11.4		3296.036	9.4	0.8	231.301
MAR	315.492	194.0	12.0		3785.904	579.0	9.0		2839.428	8.1	0.7	220.844
APR	350.496	225.0	19.0		6659.424	685.0	11.0		3855.456	8.1	0.8	280.397
MAY	266.850	241.0	17.0		4536.450	558.0	14.0		3735.900	7.3	0.7	186.795
JUN	301.400	241.0	51.0		15371.400	338.0	11.0		3315.400	6.4	1.0	301.400
JUL	313.219	118.0	8.0		2505.752	365.0	8.0		2505.752	5.6	0.8	250.575
AUG	315.947	153.0	27.0		8530.569	274.0	8.0		2527.576	5.9	0.7	221.163
SEP	307.695	169.0	33.0		10153.935	297.0	12.0		3692.340	7.0	1.1 *	338.465
OCT	284.517	205.0	19.0		5405.823	464.0	14.0		3983.238	7.4	1.3 *	369.872
NOV	300.036	230.0	32.0		9601.152	546.0	21.0		6300.756	7.0	1.6 *	480.058
DEC	344.132	245.0	43.0		14797.676	537.0	16.0		5506.112	7.4	1.3 *	447.372
AVERAGE:	306.465	212.0	27.5 *		8437.214	508.0	12.3		3751.837	7.4	1.0	291.787
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											4	
NO OF SAMPLES		342	342			365	354			365	365	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CHANGE OF PHOSPHORUS REMOVAL CHEMICAL	88/01/01	88/07/30	89/01/01

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HARRISTON
PLANT : HARRISTON LAGOON
WORKS NUMBER : 110000329
TREATMENT : AERATED LAGOON
SEASONAL DISCHARGE

DESIGN CAPACITY : 0.99 1000 m3
POPULATION SERVED : 1963

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAITLAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.354	107.0	ND			204.0	ND			13.9	ND	
FEB	1.176	138.0	ND			213.0	ND			10.5	ND	
MAR	2.049	344.0	18.3			217.0	6.5			11.8	1.9	
APR	1.716	ND	21.3			ND	15.7			ND	1.1	
MAY	1.128	122.0	ND			415.0	ND			16.0	ND	
JUN	1.140	627.0	ND			806.0	ND			28.4	ND	
JUL	1.302	2100.0	ND			190.0	ND			92.4	ND	
AUG	1.200	354.0	ND			644.0	ND			41.6	ND	
SEP	1.060	191.0	ND			428.0	ND			32.5	ND	
OCT	1.976	569.0	16.3			874.0	12.3			47.8	0.9	
NOV	1.793	216.0	6.8			467.0	8.4			22.8	0.8	
DEC	1.871	199.0	5.4			330.0	4.5			18.5	1.8	
AVERAGE:	1.480	452.0	13.6		25.710	435.0	9.5		17.609	30.6	1.3	2.472
OBSERVATIONS:	12	11	5			11	5			11	5	
EXCEEDANCES												
NO OF SAMPLES		46	29			46	24			46	29	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING BY-LAWS	87/09/01	88/06/30	88/01/31
START UP DIFFICULTIES BEING REMEDIED	86/06/01	86/12/31	
CONDUCTING TREATABILITY STUDIES	87/03/01	87/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KITCHENER
PLANT : KITCHENER WPCP
WORKS NUMBER : 110000374
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 122.74 1000 m3
POPULATION SERVED : 138271

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	66.781	289.0	13.4		894.865	240.0	4.0		267.124	7.0	0.5	34.058
FEB	64.100	305.0	14.2		910.220	252.0	4.6		294.860	7.6	0.6	37.178
MAR	74.378	293.0	21.9		1628.878	220.0	5.8		431.392	6.2	0.7	49.089
APR	79.514	230.0	21.0		1669.794	205.0	5.5		437.327	5.8	0.7	56.455
MAY	67.541	212.0	16.8		1134.689	229.0	3.7		249.902	6.3	0.7	48.630
JUN	67.088	234.0	15.1		1013.029	225.0	3.5		234.808	5.9	0.8	55.012
JUL	72.137	250.0	13.2		952.208	220.0	5.9		425.608	5.9	1.0	72.137
AUG	72.545	184.0	6.6		478.797	210.0	5.3		384.488	5.6	0.7	53.683
SEP	68.466	302.0	14.6		999.604	235.0	4.5		308.097	6.7	0.9	60.935
OCT	68.716	294.0	11.0		755.876	234.0	5.4		371.066	6.5	1.0	70.777
NOV	70.428	297.0	15.3		1077.548	245.0	6.5		457.782	6.4	1.2 *	81.696
DEC	75.234	294.0	22.3		1677.718	234.0	8.2		616.919	6.0	0.8	57.930
AVERAGE:	70.577	265.0	15.5		1099.436	229.0	5.2		373.281	6.3	0.8	56.465
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		92	113			259	264			130	148	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CHANGE OF PHOSPHORUS REMOVAL CHEMICAL	88/11/01	88/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOUNT FOREST
PLANT : MOUNT FOREST WPCP
WORKS NUMBER : 120001381
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.45 1000 m3
POPULATION SERVED : 3599

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	363.0	17.0		ND	434.0	6.0		ND	11.6	1.3 *	ND
FEB	1.528	161.0	28.7		43.854	234.0	5.7		8.710	10.9	1.3 *	2.002
MAR	2.590	321.0	11.1		28.749	784.0	6.4		16.576	10.9	0.9	2.331
APR	2.489	202.0	9.9		24.641	428.0	5.5		13.689	12.1	1.2 *	2.862
MAY	1.640	180.0	4.8		7.872	640.0	4.4		7.216	8.2	1.5 *	2.526
JUN	1.759	297.0	2.3		4.046	294.0	3.8		6.684	15.1	2.1 *	3.764
JUL	1.611	204.0	7.0		11.277	535.0	4.7		7.572	7.6	1.3 *	2.030
AUG	1.616	228.0	8.3		13.413	207.0	6.2		10.019	18.2	2.1 *	3.458
SEP	1.431	317.0	3.5		5.009	284.0	4.1		5.867	18.3	1.8 *	2.576
OCT	1.760	1473.0	1.6		2.816	275.0	7.5		13.200	11.9	1.7 *	2.974
NOV	2.323	199.0	5.1		11.847	349.0	6.4		14.867	14.5	1.2 *	2.718
DEC	2.399	251.0	5.3		12.715	263.0	4.6		11.035	12.8	1.4 *	3.311
AVERAGE:	1.922	350.0	8.7		15.113	394.0	5.4		10.494	12.7	1.5 *	2.777
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES											11	
NO OF SAMPLES		24	23			15	17			24	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NANTICOKE
PLANT : JARVIS LAGOON
WORKS NUMBER : 120001434
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 1190

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SANDUSK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.010	93.0	ND			159.0	ND			7.0	ND	
FEB	1.075	125.0	ND			198.0	ND			9.8	ND	
MAR	1.100	178.0	ND			229.0	ND			10.8	ND	
APR	1.340	151.0	24.0			350.0	63.9			5.7	0.6	
MAY	6.580	ND	ND			114.0	ND			6.0	ND	
JUN	0.650	169.0	ND			197.0	ND			9.7	ND	
JUL	0.490	91.0	ND			108.0	ND			14.0	ND	
AUG	0.630	125.0	ND			126.0	ND			11.5	ND	
SEP	0.636	92.0	ND			118.0	ND			6.4	ND	
OCT	0.640	157.0	17.7			210.0	19.5			7.5	0.8	
NOV	0.710	14.0	ND			46.0	ND			2.4	ND	
DEC	0.916	97.0	ND			114.0	ND			4.9	ND	
AVERAGE:	1.315	118.0	20.9		21.744	164.0	41.7 *		49.053	8.0	0.7	0.662
OBSERVATIONS:	12	11	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		11	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW	86/01/01	88/01/01	
UNDER DISCUSSION WITH MUNICIPALITY			1989
ENGINEERING STUDY PHASE			1989
FINAL DESIGN PHASE			1989

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NANTICOKE
PLANT : PORT DOVER WPCP
WORKS NUMBER : 110000604
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.09 1000 m3
POPULATION SERVED : 3475

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ERIE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.890	248.0	29.8	88	86.122	963.0	27.8	97	80.342	18.9	1.0	2.890
FEB	2.270	105.0	31.4	70	71.278	208.0	18.9	91	42.903	4.4	0.7	1.476
MAR	2.430	131.0	36.6	72	88.938	306.0	20.0	93	48.600	7.2	0.7	1.774
APR	3.690	164.0	11.8	93	43.542	248.0	8.8	96	32.472	12.4	0.3	0.959
MAY	2.160	416.0	29.3	93	63.288	863.0	18.9	98	40.824	19.5	0.7	1.490
JUN	1.960	594.0	47.0	92	92.120	323.0	21.8	93	42.728	6.5	1.1 *	2.156
JUL	1.900	209.0	36.7	82	69.730	257.0	19.6	92	37.240	8.6	0.8	1.425
AUG	2.410	189.0	51.5	73	124.115	280.0	100.7	64	242.687	6.0	1.3 *	3.205
SEP	1.830	241.0	27.8	88	50.874	362.0	20.0	94	36.600	8.9	0.6	1.098
OCT	1.870	184.0	26.3	86	49.181	219.0	15.7	93	29.359	6.7	0.4	0.804
NOV	2.220	42.0	13.1	69	29.082	121.0	11.0	91	24.420	2.4	0.5	0.999
DEC	3.610	47.0	12.2	74	44.042	102.0	18.5	82	66.785	3.2	0.5	1.733
AVERAGE:	2.437	214.0	29.5	82	67.693	354.0	25.1	90	60.413	8.7	0.7	1.667
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		24	24			24	24			24	22	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE			90/01/01

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NANTICOKE
PLANT : STELCO IND. PARK LAGOON
WORKS NUMBER : 110003371
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CENTER CR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.04 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.167	16.0	ND			43.0	ND			1.2	ND	
FEB	0.175	12.0	ND			34.0	ND			2.0	ND	
MAR	0.225	10.0	1.7			16.0	4.4			1.1	0.4	
APR	0.256	15.0	ND			17.0	ND			1.8	ND	
MAY	0.235	26.0	ND			141.0	ND			6.4	ND	
JUN	0.246	11.0	ND			23.0	ND			2.5	ND	
JUL	0.190	3.0	ND			215.0	ND			5.4	ND	
AUG	0.160	16.0	ND			37.0	ND			1.6	ND	
SEP	0.276	12.0	ND			30.0	ND			1.0	ND	
OCT	0.210	16.0	ND			37.0	ND			1.6	ND	
NOV	0.174	14.0	ND			46.0	ND			2.4	ND	
DEC	0.254	12.0	ND			16.0	ND			3.1	ND	
AVERAGE:	0.214	14.0	1.7		0.383	55.0	4.4		0.990	2.5	0.4	0.081
OBSERVATIONS:	12	12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		12	2			12	2			12	2	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NANTICOKE
PLANT : TOWNSEND LAGOON
WORKS NUMBER : 110003424
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NANTICOKE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NANTICOKE
PLANT : WATERFORD LAGOON
WORKS NUMBER : 110001195
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE

DESIGN CAPACITY : 2.13 1000 m3
POPULATION SERVED : 2364

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NANTICOKE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.420	91.0	11.7		16.614	82.0	16.6		23.572	3.8	1.0	1.406
FEB	1.451	203.0	46.6		67.617	229.0	30.7		44.546	5.3	1.2	1.741
MAR	1.556	87.0	56.5		87.914	49.0	18.4		28.630	4.1	0.8	1.291
APR	1.766	56.0	26.2		46.269	67.0	12.2		21.545	4.5	0.7	1.148
MAY	1.511	97.0	35.2		53.187	141.0	35.6		53.792	5.0	0.3	0.438
JUN	1.172	70.0	30.5		35.746	167.0	83.5		97.862	4.8	0.3	0.340
JUL	1.224	107.0	13.3		16.279	125.0	15.8		19.339	3.9	0.3	0.306
AUG	1.209	87.0	7.5		9.068	348.0	14.5		17.530	5.0	0.2	0.290
SEP	1.438	115.0	16.0		23.008	151.0	23.0		33.074	10.1	0.2	0.345
OCT	1.415	109.0	10.6		14.999	75.0	8.2		11.603	5.4	0.1	0.170
NOV	1.408	117.0	7.2		10.138	176.0	6.9		9.715	8.8	0.2	0.296
DEC	1.774	119.0	9.1		16.143	97.0	7.6		13.482	6.3	0.2	0.408
AVERAGE:	1.445	105.0	22.5		33.082	142.0	22.8		31.224	5.6	0.5	0.682
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	23			25	23			25	63	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER	86/01/01	86/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NIAGARA FALLS
PLANT : STAMFORD WPCP
WORKS NUMBER : 120001363
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 58.18 1000 m3
POPULATION SERVED : 67835

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CHIPPAWA POWER CANAL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	48.915	73.0	27.0	63	1320.[illegible]5	118.0	18.0	85	880.470	3.3	0.6	28.371
FEB	43.255	60.0	12.0	80	519.060	134.0	17.0	87	735.335	4.3	0.7	31.576
MAR	52.674	38.0	13.9	63	732.169	112.0	14.0	88	737.436	3.3	0.8	42.666
APR	66.162	34.0	11.0	68	727.782	86.0	12.0	86	793.944	3.6	0.7	47.637
MAY	47.665	43.0	1.3	97	61.965	113.0	1.4	99	66.731	4.8	0.8	38.609
JUN	55.084	79.0	9.0	89	495.756	96.0	23.0	76	1266.932	4.7	1.3 *	72.711
JUL	61.203	68.0	10.0	85	612.030	94.0	15.0	84	918.045	3.8	0.8	50.186
AUG	62.798	45.0	14.0	69	879.172	84.0	15.0	82	941.970	ND	ND	ND
SEP	67.549	81.0	14.0	83	945.686	101.0	16.0	84	1080.784	ND	ND	ND
OCT	54.270	90.0	10.0	89	542.700	122.0	18.3	85	993.141	4.8	0.4	21.165
NOV	60.370	59.0	11.0	81	664.070	125.0	19.0	85	1147.030	3.6	0.4	24.148
DEC	61.119	125.0	9.0	93	550.071	101.0	21.0	79	1283.499	3.1	0.4	24.448
AVERAGE:	56.755	66.0	11.9	80	670.930	107.0	15.8	85	903.776	3.9	0.7	38.152
OBSERVATIONS:	12	12	12			12	12			10	10	
EXCEEDANCES											1	
NO OF SAMPLES		34	37			207	207			33	37	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NIAGARA-ON-THE-LAKE
PLANT : NIAGARA-ON-THE-LAKE LAGOON
WORKS NUMBER : 120001238
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE

DESIGN CAPACITY : 3.84 1000 m3
POPULATION SERVED : 5210

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.941	79.0	18.0		70.938	97.0	15.0		59.115	3.4	2.2	8.670
FEB	3.605	63.0	9.3		33.527	101.0	8.0		28.840	4.9	3.7	13.230
MAR	4.064	37.0	13.0		52.832	82.0	22.0		89.408	4.2	2.3	9.347
APR	6.283	77.0	26.0		163.358	78.0	36.0		226.188	3.2	2.4	15.079
MAY	3.114	112.0	34.0		105.876	111.0	34.0		105.876	9.8	3.1	9.529
JUN	3.100	108.0	39.0		120.900	178.0	60.0		186.000	6.6	3.4	10.509
JUL	4.151	135.0	34.5		143.209	153.0	50.0		207.550	4.9	3.4	13.947
AUG	31.370	114.0	36.0		1129.320	116.0	42.0		1317.540	4.7	3.1	95.992
SEP	6.609	94.0	40.0		264.360	89.0	32.0		211.488	5.8	4.4	29.080
OCT	3.077	126.0	15.0		46.155	102.0	15.0		46.155	5.4	3.8	11.693
NOV	3.188	69.0	11.0		35.068	140.0	11.0		35.068	4.3	3.8	12.114
DEC	4.414	34.0	6.7		29.574	107.0	11.0		48.554	4.1	4.1	18.097
AVERAGE:	6.410	87.0	23.5		182.926	113.0	28.0		213.482	5.1	3.3	20.607
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		35	33			63	63			30	28	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORFOLK
PLANT : PORT ROWAN LAGOON
WORKS NUMBER : 110001113
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.72 1000 m3
POPULATION SERVED : 720

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DEDRICH CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.286	ND	ND			ND	ND			ND	ND	
FEB	0.260	ND	ND			ND	ND			ND	ND	
MAR	0.282	ND	ND			ND	ND			ND	ND	
APR	0.324	78.0	ND			120.0	ND			5.5	ND	
MAY	0.232	301.0	18.0			332.0	28.2			17.9	0.5	
JUN	0.235	108.0	ND			118.0	ND			5.7	ND	
JUL	0.233	260.0	ND			122.0	ND			10.0	ND	
AUG	0.266	16.0	ND			22.0	ND			2.0	ND	
SEP	0.236	55.0	ND			76.0	ND			4.8	ND	
OCT	0.227	117.0	ND			59.0	ND			7.6	ND	
NOV	0.259	80.0	ND			56.0	ND			4.4	ND	
DEC	0.313	131.0	ND			131.0	ND			4.7	ND	
AVERAGE:	0.263	127.0	18.0		4.176	115.0	28.2		6.542	7.0	0.5	0.114
OBSERVATIONS:	12	9	1			9	1			9	1	
EXCEEDANCES												
NO OF SAMPLES		9	1			9	1			9	1	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORTH DUMFRIES
PLANT : AYR PV WPCP
WORKS NUMBER : 110001943
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.18 1000 m3
POPULATION SERVED : 1281

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NITH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.432	116.0	7.5		3.240	87.0	5.1		2.203	5.7	0.5	0.207
FEB	0.435	170.0	8.4		3.654	105.0	6.4		2.784	7.2	0.3	0.144
MAR	0.452	254.0	7.1		3.209	199.0	5.0		2.260	8.6	0.4	0.158
APR	0.428	162.0	2.2		0.942	104.0	3.6		1.541	8.8	0.5	0.223
MAY	0.398	168.0	4.5		1.791	114.0	3.1		1.234	8.3	0.8	0.322
JUN	0.398	192.0	5.2		2.070	839.0	4.3		1.711	11.2	0.9	0.362
JUL	0.404	162.0	2.8		1.131	111.0	2.3		0.929	6.7	0.8	0.319
AUG	0.418	181.0	3.5		1.463	130.0	1.5		0.627	9.1	0.5	0.201
SEP	0.407	ND	ND		ND	ND	4.4		1.791	ND	0.4	0.179
OCT	0.399	84.0	4.5		1.796	53.0	3.0		1.197	4.9	0.2	0.084
NOV	0.403	185.0	5.7		2.297	165.0	7.2		2.902	11.7	0.5	0.189
DEC	0.470	167.0	6.9		3.243	162.0	5.6		2.632	10.3	0.5	0.235
AVERAGE:	0.420	167.0	5.3		2.258	188.0	4.3		1.818	8.4	0.5	0.219
OBSERVATIONS:	12	11	11			11	12			11	12	
EXCEEDANCES												
NO OF SAMPLES		16	16			16	27			16	138	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ORANGEVILLE
PLANT : ORANGEVILLE WPCP
WORKS NUMBER : 110000542
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 14.54 1000 m3
POPULATION SERVED : 15300

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CREDIT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	7.640	212.0	3.3		25.212	213.0	4.5		34.380	12.3	0.2	1.834
FEB	7.210	175.0	6.0		43.260	167.0	4.3		31.003	8.3	0.3	1.947
MAR	10.850	130.0	1.7		18.445	141.0	4.7		50.995	6.0	0.2	2.387
APR	12.880	163.0	5.5		70.840	136.0	4.0		51.520	6.6	0.3	3.478
MAY	7.730	148.0	2.7		20.871	135.0	2.7		20.871	8.5	0.4	3.324
JUN	7.400	195.0	0.7		5.180	165.0	3.2		23.680	5.7	0.1	0.888
JUL	7.645	196.0	1.0		7.645	192.0	1.8		13.761	4.2	0.1	0.917
AUG	7.520	133.0	1.3		9.776	104.0	2.2		16.544	5.2	0.1	0.978
SEP	7.763	188.0	1.2		9.316	137.0	3.1		24.065	5.8	0.2	1.785
OCT	7.710	190.0	1.4		10.794	109.0	2.6		20.046	8.4	0.2	1.619
NOV	8.060	198.0	1.8		14.508	113.0	2.0		16.120	4.3	0.2	1.290
DEC	9.740	165.0	2.7		26.298	110.0	3.1		30.194	3.7	0.1	1.364
AVERAGE:	8.512	174.0	2.4		21.845	144.0	3.2		27.765	6.6	0.2	1.818
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		72	20			75	339			23	216	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PALMERSTON
PLANT : PALMERSTON WPCP
WORKS NUMBER : 110001088
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : WALLACE DRAIN
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 2050

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.770	139.0	51.7		143.209	137.0	41.1		113.847	7.1	3.5	9.640
FEB	2.730	178.0	104.0		283.920	293.0	48.6		132.678	9.3	5.2	14.278
MAR	2.800	184.0	36.6		102.480	181.0	20.7		57.960	5.4	2.1	5.936
APR	2.933	116.0	29.2		85.644	83.0	20.1		58.953	5.8	2.3	6.805
MAY	2.452	238.0	60.4		148.101	386.0	29.7		72.824	7.4	4.5	11.108
JUN	2.200	256.0	52.6		115.720	200.0	62.3		137.060	21.9	4.3	9.372
JUL	2.065	166.0	138.0		234.970	120.0	86.9		179.448	6.9	4.5	9.293
AUG	2.000	393.0	50.8		101.600	286.0	29.5		59.000	16.2	3.8	7.560
SEP	2.875	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	2.600	433.0	74.0		192.400	142.0	27.8		72.280	13.0	4.7	12.116
NOV	2.032	188.0	55.4		112.573	146.0	38.1		77.419	10.1	3.4	6.848
DEC	1.890	271.0	42.0		79.380	517.0	38.0		71.820	22.3	ND	ND
AVERAGE:	2.446	233.0	63.2 *		150.000	226.0	40.3 *		93.935	11.4	3.8	9.296
OBSERVATIONS:	12	11	11			11	11			11	10	
EXCEEDANCES												
NO OF SAMPLES		11	10			11	10			11	10	

COMPLIANCE :

BOD - NO
SS - NO
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE		86/12/31	
UNDER CONSTRUCTION	87/05/01	88/11/30	
CONSTRUCTION COMPLETED		88/12/30	
FACILITY OPERATIONAL	88/09/30		89/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PARIS
PLANT : PARIS WPCP
WORKS NUMBER : 110001097
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 7.04 1000 m3
POPULATION SERVED : 4359

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.630	427.0	5.5		14.465	213.0	4.4		11.572	7.7	0.4	0.999
FEB	2.490	348.0	7.6		18.924	217.0	6.1		15.189	9.9	0.4	0.946
MAR	2.700	538.0	10.4		28.080	149.0	8.4		22.680	6.9	0.7	1.890
APR	3.040	257.0	4.6		13.984	125.0	9.9		30.096	7.8	0.5	1.398
MAY	2.460	313.0	4.1		10.086	128.0	3.7		9.102	7.7	0.7	1.820
JUN	2.380	528.0	3.0		7.140	257.0	1.9		4.522	10.2	0.4	0.928
JUL	2.330	336.0	2.2		5.126	228.0	1.4		3.262	9.0	0.4	1.002
AUG	2.440	395.0	4.2		10.248	162.0	3.8		9.272	7.3	0.6	1.513
SEP	2.470	314.0	3.4		8.398	157.0	7.3		18.031	7.9	0.7	1.803
OCT	2.410	302.0	4.8		11.568	203.0	7.4		17.834	10.6	0.5	1.205
NOV	2.590	232.0	5.3		13.727	146.0	4.5		11.655	8.0	0.6	1.658
DEC	2.560	362.0	5.3		13.568	230.0	5.7		14.592	8.6	0.4	1.024
AVERAGE:	2.542	363.0	5.0		12.943	185.0	5.4		13.984	8.5	0.5	1.349
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		20	20			20	63			20	153	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT COLBORNE
PLANT : SEAWAY WPCP
WORKS NUMBER : 120001906
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND CANAL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 15.00 1000 m3
POPULATION SERVED : 15825

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	10.792	85.0	13.5		145.692	159.0	21.2		228.790	6.4	0.4	4.641
FEB	9.660	66.0	5.5		53.130	127.0	7.5		72.450	5.9	0.4	3.961
MAR	11.647	94.0	7.1		82.694	169.0	7.3		85.023	7.8	0.6	7.105
APR	14.336	92.0	11.4		163.430	120.0	5.8		83.149	6.4	0.5	7.741
MAY	9.528	177.0	34.1		324.905	228.0	10.8		102.902	11.8	0.5	5.145
JUN	10.028	65.0	3.5		35.098	113.0	2.9		29.081	5.7	0.4	4.111
JUL	12.051	37.0	2.4		28.922	62.0	2.2		26.512	6.0	0.4	4.218
AUG	10.988	101.0	7.5		82.410	181.0	3.1		34.063	10.2	0.5	4.945
SEP	14.056	87.0	4.3		60.441	123.0	2.8		39.357	7.2	0.6	8.574
OCT	10.588	112.0	6.1		64.587	133.0	3.4		35.999	8.7	0.5	5.612
NOV	10.919	86.0	10.0		109.190	170.0	5.9		64.422	7.7	0.6	6.005
DEC	12.211	49.0	7.9		96.467	86.0	15.4		188.049	5.4	0.4	4.518
AVERAGE:	11.400	88.0	9.4		103.914	144.0	7.4		82.483	7.4	0.5	5.548
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		59	55			224	221			139	178	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT COLBORNE
PLANT : WEST PLANT (EXCESS Q FROM SEAWAY ONLY)
WORKS NUMBER : 120001336
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND CANAL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SHELBURNE
PLANT : SHELBURNE WPCP
WORKS NUMBER : 110000659
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 2.04 1000 m3
POPULATION SERVED : 4000

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BOYNE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.320	164.0	5.3		6.996	223.0	10.7		14.124	9.6	0.6	0.726
FEB	1.240	154.0	1.6		1.984	214.0	11.2		13.888	7.6	0.7	0.868
MAR	1.910	124.0	14.3		27.313	154.0	20.3		38.773	6.9	0.6	1.165
APR	2.090	145.0	4.6		9.614	129.0	6.9		14.421	6.3	0.6	1.233
MAY	1.740	196.0	4.6		8.004	154.0	5.2		9.048	8.6	0.4	0.748
JUN	1.650	268.0	3.2		5.280	196.0	8.0		13.200	6.6	0.9	1.452
JUL	1.609	251.0	2.6		4.183	161.0	3.1		4.988	6.4	0.6	0.949
AUG	1.806	150.0	7.7		13.906	153.0	3.9		7.043	6.0	0.6	1.066
SEP	1.150	218.0	8.0		9.200	185.0	4.3		4.945	8.3	0.6	0.632
OCT	1.270	288.0	10.8		13.716	218.0	4.6		5.842	8.8	0.4	0.546
NOV	1.380	272.0	11.1		15.318	276.0	5.4		7.452	10.2	0.3	0.386
DEC	1.890	199.0	3.6		6.804	203.0	5.9		11.151	5.0	0.2	0.283
AVERAGE:	1.588	202.0	6.5		10.193	189.0	7.5		12.073	7.5	0.5	0.838
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		71	18			74	66			24	79	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SIMCOE
PLANT : SIMCOE WPCP
WORKS NUMBER : 110000677
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 15.45 1000 m3
POPULATION SERVED : 11961

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LYNN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	9.130	261.0	3.9		35.607	185.0	2.1		19.173	5.8	0.9	7.852
FEB	8.600	418.0	8.2		70.520	191.0	2.4		20.640	8.9	0.6	5.332
MAR	8.419	208.0	2.9		24.415	223.0	4.0		33.676	6.2	0.7	6.062
APR	9.805	122.0	1.5		14.707	191.0	1.6		15.688	5.4	0.8	7.550
MAY	8.090	174.0	3.4		27.506	165.0	1.2		9.708	7.3	0.7	5.501
JUN	8.026	191.0	4.6		36.920	124.0	1.6		12.842	6.5	0.6	4.575
JUL	7.639	301.0	5.4		41.251	152.0	2.1		16.042	5.9	0.8	6.111
AUG	7.908	183.0	9.4		74.335	207.0	5.9		46.657	7.1	1.0	7.513
SEP	8.061	219.0	6.6		53.203	200.0	4.1		33.050	6.8	0.3	2.338
OCT	12.030	307.0	4.1		49.323	152.0	5.1		61.353	7.8	0.4	4.812
NOV	7.703	199.0	3.3		25.420	157.0	1.2		9.244	7.5	0.4	3.235
DEC	8.134	221.0	4.4		35.790	167.0	2.0		16.268	5.4	0.4	3.010
AVERAGE:	8.629	234.0	4.8		40.750	176.0	2.8		24.528	6.7	0.6	5.324
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		56	57			56	56			57	334	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SOUTH DUMFRIES
PLANT : ST GEORGE PV WPCP
WORKS NUMBER : 110003415
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 1.06 1000 m3
POPULATION SERVED : 500

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FAIRCHILD CREEK (W. BR)
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.331	183.0	1.0		0.331	139.0	0.4		0.132	4.3	0.5	0.149
FEB	0.367	187.0	1.9		0.697	118.0	2.5		0.917	6.6	0.3	0.114
MAR	0.400	180.0	2.2		0.880	166.0	0.8		0.320	6.8	0.5	0.188
APR	0.415	128.0	0.9		0.373	71.0	0.8		0.332	7.6	0.4	0.170
MAY	0.354	102.0	1.6		0.566	86.0	1.0		0.354	6.6	0.5	0.166
JUN	0.421	76.0	3.5		1.474	73.0	2.2		0.926	3.3	0.5	0.202
JUL	0.423	144.0	0.9		0.381	119.0	0.6		0.254	5.4	0.4	0.178
AUG	0.403	101.0	2.9		1.169	69.0	0.5		0.202	5.4	0.5	0.185
SEP	0.404	105.0	2.8		1.131	114.0	1.5		0.606	5.3	0.5	0.202
OCT	0.382	102.0	1.5		0.573	269.0	3.0		1.146	8.5	0.4	0.168
NOV	0.403	153.0	5.0		2.015	165.0	2.7		1.088	9.6	0.4	0.177
DEC	0.431	105.0	5.2		2.241	112.0	1.4		0.603	4.0	0.4	0.185
AVERAGE:	0.395	130.0	2.5		0.986	125.0	1.5		0.573	6.1	0.4	0.174
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		18	18			18	27			18	116	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST CATHARINES
PLANT : PORT DALHOUSIE WPCP
WORKS NUMBER : 120001327
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 61.37 1000 m3
POPULATION SERVED : 60430

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	44.454	158.0	21.0		933.534	118.0	12.0		533.448	4.0	0.5	22.672
FEB	39.772	110.0	15.0		596.580	137.0	9.4		373.857	4.2	0.4	16.704
MAR	42.727	98.0	21.0		897.267	146.0	8.5		363.179	3.8	0.4	15.382
APR	49.727	59.0	13.5		671.314	120.0	10.1		502.243	16.8	0.3	12.929
MAY	37.136	142.0	24.0		891.264	234.0	8.0		297.088	5.9	0.2	8.170
JUN	38.004	123.0	6.9		262.228	108.0	8.3		315.433	4.3	0.5	19.002
JUL	36.636	194.0	9.1		333.388	113.0	7.6		278.434	3.2	0.2	7.694
AUG	41.868	75.0	11.7		489.856	98.0	13.0		544.284	3.5	0.5	20.097
SEP	45.987	180.0	12.6		579.436	130.0	12.7		584.035	5.2	0.7	33.571
OCT	42.186	138.0	10.2		430.297	150.0	10.0		421.860	4.0	0.5	22.359
NOV	43.409	118.0	8.3		360.295	137.0	10.9		473.158	4.9	0.5	21.270
DEC	49.187	75.0	10.1		496.789	114.0	10.4		511.545	3.1	0.5	26.069
AVERAGE:	42.591	122.0	13.6		578.521	134.0	10.1		433.214	5.2	0.4	18.827
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			342	342			59	55	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/08/31	89/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST CATHARINES
PLANT : PORT WELLER WPCP
WORKS NUMBER : 120001318
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 37.50 1000 m3
POPULATION SERVED : 75690

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLER HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	43.409	104.0	12.9		559.976	180.0	10.9		473.158	5.3	0.7	32.123
FEB	38.636	194.0	11.0		424.996	183.0	10.2		394.087	4.6	0.8	32.454
MAR	41.681	63.0	20.0		833.620	162.0	9.5		395.969	4.0	0.9	36.262
APR	52.727	43.0	22.0		1159.994	115.0	12.4		653.815	3.7	0.7	35.854
MAY	31.000	166.0	16.0		496.000	284.0	12.1		375.100	5.3	1.0	30.380
JUN	31.867	109.0	23.0		732.941	186.0	10.8		344.164	7.9	0.8	25.812
JUL	37.590	109.0	20.0		751.800	201.0	8.6		323.274	5.0	0.8	30.072
AUG	37.909	73.0	12.9		489.026	281.0	20.1		761.971	4.0	0.5	17.817
SEP	38.980	88.0	25.0		974.500	361.0	8.9		346.922	11.5	0.7	26.506
OCT	34.458	128.0	18.0		620.244	355.0	17.9		616.798	10.3	1.0	34.458
NOV	41.500	100.0	17.0		705.500	247.0	14.0		581.000	6.5	1.0	41.500
DEC	57.461	122.0	25.0		1436.525	179.0	12.1		695.278	5.7	1.0	57.461
AVERAGE:	40.602	108.0	18.6		765.427	228.0	12.3		496.795	6.2	0.8	33.392
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		35	30			373	369			54	64	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	87/04/30	88/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WATERLOO
PLANT : WATERLOO WPCP
WORKS NUMBER : 110000793
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 45.46 1000 m3
POPULATION SERVED : 66627

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	40.060	210.0	7.8		312.468	430.0	10.0		400.600	5.6	0.7	28.042
FEB	42.760	280.0	7.0		299.320	590.0	11.0		470.360	6.1	0.6	25.656
MAR	54.650	160.0	7.0		382.550	280.0	11.0		601.150	4.7	0.6	32.790
APR	57.140	230.0	6.0		342.840	410.0	8.0		457.120	4.9	0.5	28.570
MAY	44.450	190.0	8.0		355.600	250.0	14.0		622.300	4.8	0.8	35.560
JUN	43.010	200.0	7.0		301.070	260.0	11.0		473.110	5.7	0.8	34.408
JUL	44.180	180.0	8.0		353.440	320.0	9.0		397.620	5.0	0.6	26.508
AUG	43.720	107.0	2.0		87.440	260.0	10.0		437.200	5.2	0.8	34.976
SEP	43.130	150.0	8.0		345.040	240.0	18.0		776.340	4.7	1.3 *	56.069
OCT	45.990	140.0	10.0		459.900	300.0	23.0		1057.770	4.5	1.2 *	55.188
NOV	47.070	126.0	7.0		329.490	350.0	17.0		800.190	4.2	0.9	42.363
DEC	50.360	190.0	12.0		604.320	320.0	29.0		1460.440	4.1	1.0	50.360
AVERAGE:	46.377	180.0	7.5		347.790	334.0	14.3		662.850	5.0	0.8	37.541
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		82	79			245	239			84	186	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER CONSTRUCTION	87/09/01	88/12/31	1989

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WELLAND
PLANT : WELLAND WPCP
WORKS NUMBER : 120001309
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 45.46 1000 m3
POPULATION SERVED : 47205

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	33.888	60.0	8.3		281.270	117.0	12.3		416.822	4.5	1.3 *	43.377
FEB	28.569	65.0	5.9		168.557	205.0	9.6		274.262	8.1	0.4	10.571
MAR	39.924	57.0	11.2		447.149	179.0	13.9		554.944	4.0	0.5	21.160
APR	48.293	71.0	11.6		560.199	172.0	13.8		666.443	3.7	0.5	22.698
MAY	25.076	95.0	7.1		178.040	206.0	9.5		238.222	6.7	0.3	6.269
JUN	32.567	75.0	2.8		91.188	158.0	8.1		263.793	4.7	0.3	9.444
JUL	31.495	73.0	4.4		138.578	131.0	5.7		179.522	3.6	0.3	10.393
AUG	31.797	74.0	3.7		117.649	125.0	5.1		162.165	5.1	0.5	16.216
SEP	38.137	84.0	7.9		301.282	136.0	5.5		209.754	3.6	0.3	12.585
OCT	32.404	72.0	10.3		333.761	141.0	9.6		311.078	5.6	0.5	17.498
NOV	33.134	94.0	16.3		540.084	176.0	15.0		497.010	4.0	0.4	14.579
DEC	44.867	59.0	12.1		542.891	156.0	16.2		726.845	3.3	0.5	20.639
AVERAGE:	35.013	73.0	8.5		308.387	159.0	10.4		375.072	4.7	0.5	17.119
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		106	106			439	425			157	164	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	87/02/28	89/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WELLESLEY
PLANT : WELLESLEY WPCP
WORKS NUMBER : 110001578
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.50 1000 m3
POPULATION SERVED : 950

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NITH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.568	130.0	9.6		5.453	163.0	3.7		2.102	4.5	0.5	0.284
FEB	0.491	155.0	2.5		1.228	250.0	4.3		2.111	5.9	0.5	0.255
MAR	0.917	74.0	5.4		4.952	85.0	2.7		2.476	3.8	0.3	0.275
APR	0.803	70.0	2.5		2.008	107.0	4.4		3.533	3.0	0.5	0.361
MAY	0.484	200.0	1.4		0.678	168.0	4.4		2.130	7.3	0.5	0.218
JUN	0.459	122.0	1.0		0.459	171.0	4.9		2.249	5.8	0.5	0.230
JUL	0.528	202.0	3.9		2.059	179.0	4.8		2.534	7.6	0.7	0.364
AUG	0.526	55.0	2.9		1.525	158.0	4.4		2.314	4.4	0.4	0.195
SEP	0.512	292.0	1.7		0.870	187.0	3.4		1.741	6.5	0.9	0.461
OCT	0.587	189.0	1.9		1.115	150.0	3.4		1.996	6.8	0.9	0.511
NOV	0.750	111.0	1.4		1.050	110.0	4.5		3.375	4.3	0.5	0.338
DEC	0.876	118.0	3.9		3.416	97.0	4.3		3.767	3.2	1.2 *	1.051
AVERAGE:	0.625	143.0	3.2		2.068	152.0	4.1		2.527	5.3	0.6	0.379
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		26	26			127	127			28	27	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/12/31		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WEST LINCOLN
PLANT : SMITHVILLE LAGOON
WORKS NUMBER : 120001229
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TWENTY MILE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.56 1000 m3
POPULATION SERVED : 1980

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.073	118.0	15.5			86.0	19.3			5.4	2.4	
FEB	0.873	75.0	19.8			78.0	18.6			6.0	3.6	
MAR	1.067	51.0	49.0			51.0	28.5			3.4	3.4	
APR	1.512	74.0	27.7			104.0	148.0			4.1	2.4	
MAY	0.664	167.0	ND			158.0	ND			5.6	ND	
JUN	0.807	152.0	ND			379.0	ND			22.5	ND	
JUL	0.992	83.0	ND			58.0	ND			4.0	ND	
AUG	0.967	100.0	ND			134.0	ND			6.3	ND	
SEP	0.885	117.0	ND			112.0	ND			6.5	ND	
OCT	0.832	201.0	ND			108.0	ND			7.1	ND	
NOV	1.012	128.0	ND			136.0	ND			7.3	ND	
DEC	1.370	66.0	ND			108.0	ND			5.0	ND	
AVERAGE:	1.005	111.0	28.0		32.020	126.0	53.6 *		72.783	6.9	2.9	3.237
OBSERVATIONS:12		12	4			12	4			12	4	
EXCEEDANCES												
NO OF SAMPLES		23	7			24	8			24	8	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - NO	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/03/31	88/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WILMOT
PLANT : BADEN WPCP
WORKS NUMBER : 110001710
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.92 1000 m3
POPULATION SERVED : 1016

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BADEN CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.621	355.0	6.4		3.974	159.0	5.9		3.664	8.9	0.7	0.416
FEB	0.586	428.0	9.4		5.508	177.0	5.7		3.340	14.5	1.0	0.557
MAR	0.873	190.0	3.6		3.143	116.0	3.8		3.317	9.3	0.6	0.559
APR	0.730	355.0	2.0		1.460	324.0	2.8		2.044	7.3	0.5	0.350
MAY	ND	557.0	4.0		ND	204.0	1.2		ND	13.3	0.6	ND
JUN	0.541	226.0	6.6		3.571	204.0	1.2		0.649	13.3	0.6	0.330
JUL	0.616	186.0	1.0		0.616	269.0	1.4		0.862	15.7	1.3 *	0.782
AUG	0.532	497.0	3.1		1.649	144.0	2.1		1.117	14.3	1.5 *	0.777
SEP	0.544	232.0	8.0		4.352	199.0	8.0		4.352	14.3	1.6 *	0.892
OCT	0.565	231.0	3.5		1.977	188.0	1.9		1.073	18.5	0.8	0.475
NOV	0.610	208.0	2.8		1.708	227.0	3.4		2.074	14.5	0.5	0.317
DEC	0.749	1020.0	5.5		4.120	871.0	9.3		6.966	23.0	0.7	0.554
AVERAGE:	0.633	374.0	4.7		2.916	257.0	3.9		2.678	13.9	0.9	0.546
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		25	26			23	26			26	121	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING BY-LAWS	87/09/01	88/02/28	88/03/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WILMOT
PLANT : NEW HAMBURG LAGOON
WORKS NUMBER : 110000506
TREATMENT : AERATED CELL PLUS LAGOON
EFFLUENT POLISHING
CONTINUOUS DISCHARGE
DESIGN CAPACITY : 2.72 1000 m3
POPULATION SERVED : 3787

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NITH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.454	344.0	4.5		6.543	189.0	5.6		8.142	22.0	ND	ND
FEB	1.480	720.0	3.5		5.180	635.0	3.0		4.440	14.4	1.0	1.436
MAR	2.052	115.0	ND		ND	87.0	ND		ND	5.1	ND	ND
APR	2.148	211.0	1.4		3.007	140.0	1.6		3.437	10.1	0.5	1.010
MAY	1.429	239.0	1.1		1.572	168.0	7.2		10.289	9.6	0.4	0.600
JUN	1.320	182.0	0.6		0.792	209.0	0.8		1.056	18.6	0.6	0.779
JUL	1.420	96.0	1.0		1.420	78.0	0.6		0.852	6.8	0.8	1.065
AUG	1.248	254.0	0.8		0.998	184.0	0.4		0.499	11.5	0.6	0.699
SEP	1.200	177.0	0.8		0.960	166.0	0.2		0.240	12.4	0.7	0.792
OCT	1.295	129.0	2.1		2.720	329.0	1.4		1.813	8.0	0.6	0.803
NOV	1.470	141.0	5.0		7.350	160.0	0.7		1.029	11.1	0.5	0.779
DEC	1.899	92.0	2.7		5.127	94.0	1.0		1.899	11.3	ND	ND
AVERAGE:	1.535	225.0	2.1		3.243	203.0	2.0		3.063	11.7	0.6	0.885
OBSERVATIONS:	12	12	11			12	11			12	9	
EXCEEDANCES												
NO OF SAMPLES		22	11			22	11			22	0	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WOOLWICH
PLANT : ELMIRA WPCP (COMBINED FLOW)
WORKS NUMBER : 110000150
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 7090

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CANAGAGIGUE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.502	214.0	3.8		13.308	186.0	10.8		37.822	8.5	1.6 *	5.603
FEB	2.960	281.0	3.4		10.064	222.0	17.6		52.096	10.7	1.7 *	5.032
MAR	5.286	191.0	7.2		38.059	150.0	15.3		80.876	5.1	1.5 *	7.929
APR	5.165	215.0	3.1		16.012	212.0	12.8		66.112	7.9	0.9	4.649
MAY	3.514	305.0	4.7		16.516	220.0	18.0		63.252	10.7	1.5 *	5.271
JUN	4.353	289.0	1.4		6.094	250.0	15.0		65.295	10.2	0.5	2.176
JUL	4.766	351.0	1.8		8.579	231.0	14.0		66.724	8.9	0.4	1.906
AUG	4.237	148.0	2.5		10.593	203.0	15.4		65.250	7.4	0.4	1.695
SEP	4.147	172.0	1.5		6.221	223.0	7.6		31.517	7.0	0.6	2.488
OCT	4.311	296.0	2.4		10.346	229.0	14.1		60.785	5.5	0.4	1.724
NOV	5.033	266.0	8.9		44.794	223.0	23.9		120.289	5.6	0.6	3.020
DEC	5.748	202.0	9.1		52.307	209.0	15.2		87.370	7.4	0.5	2.874
AVERAGE:	4.418	244.0	4.1		19.408	213.0	15.0		66.449	7.9	0.9	3.697
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											4	
NO OF SAMPLES		19	71			71	254			27	148	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			1989

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WOOLWICH
PLANT : ST.JACOBS PV WPCP
WORKS NUMBER : 110001211
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 1266

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CONESTOGO RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.031	165.0	6.5		6.701	165.0	44.7		46.086	6.5	0.8	0.773
FEB	0.800	174.0	13.5		10.800	198.0	19.7		15.760	4.6	0.6	0.480
MAR	1.305	129.0	8.7		11.353	156.0	23.9		31.189	7.1	0.8	0.979
APR	1.420	82.0	3.5		4.970	159.0	14.6		20.732	7.0	0.9	1.264
MAY	0.894	221.0	3.3		2.950	256.0	14.3		12.784	7.3	0.5	0.465
JUN	0.790	193.0	6.5		5.135	477.0	16.8		13.272	9.3	1.1 *	0.845
JUL	0.932	109.0	7.3		6.804	170.0	16.5		15.378	6.3	0.6	0.531
AUG	1.040	65.0	3.0		3.120	138.0	12.8		13.312	6.4	0.8	0.811
SEP	0.828	130.0	4.3		3.560	198.0	11.5		9.522	7.2	0.6	0.464
OCT	0.966	554.0	20.2		19.513	278.0	46.8		45.209	6.0	0.8	0.753
NOV	1.054	969.0	18.9		19.921	257.0	23.1		24.347	5.3	0.6	0.611
DEC	1.187	105.0	3.8		4.511	254.0	12.5		14.838	4.3	0.7	0.867
AVERAGE:	1.021	241.0	8.3		8.278	226.0	21.4		21.869	6.4	0.7	0.737
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		29	23			143	135			108	111	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/12/31		

Central Region

③

Ministry
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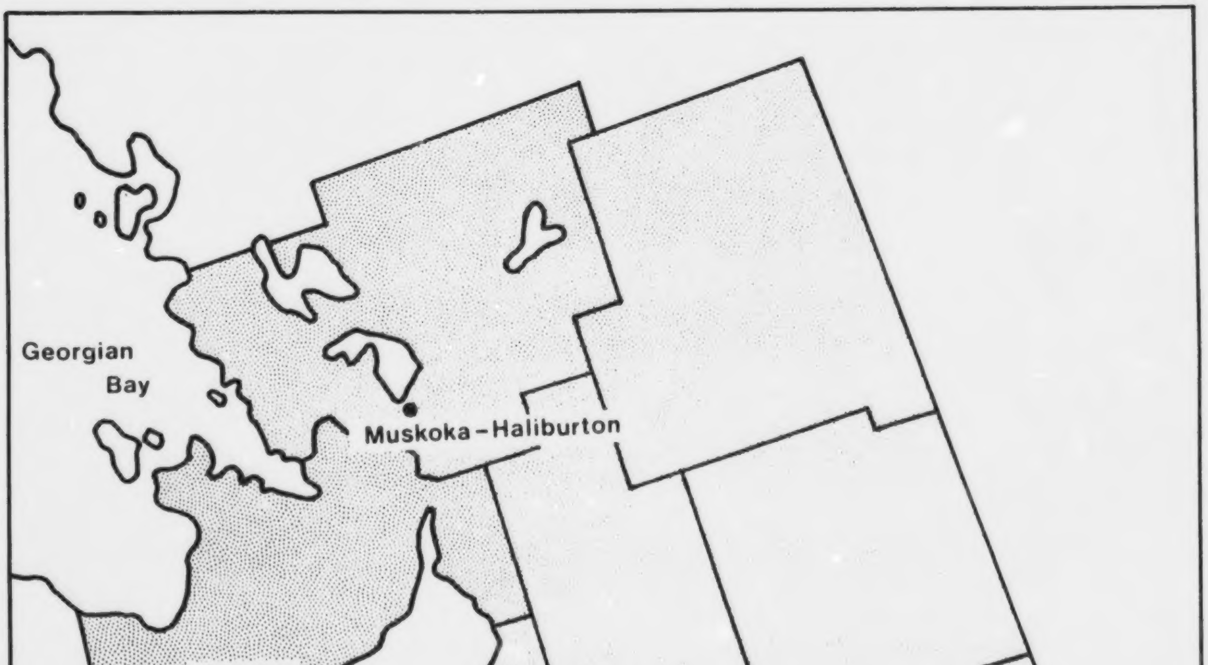
Ontario


Georgian
Bay
Muskoka-Haliburton
Barrie
Peterborough
TORONTO
Halton-Peel
Lake Ontario

Central Region
③
Ministry
of the
Environment
Ontario

REGIONAL OFFICE

Toronto
7 Overlea Blvd.
M4E 1A8
(416) 424-3000

DISTRICT OFFICES

Barrie
12 Fairview Road
L4N 4P3
(705) 726-1730

Halton-Peel
1226 White Oaks Blvd.
Oakville
L6H 2B9
(416) 844-5747

Metro Toronto East
7 Overlea Blvd.
M4E 1A8
(416) 424-3008

Metro Toronto West
7 Overlea Blvd.
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(416) 424-3007

Muskoka-Haliburton
Gravenhurst Plaza
General Delivery
P0C 1G0
(705) 687-3408

Peterborough
139 George St. North
K9J 3G6
(705) 743-2972

York-Durham
7 Overlea Blvd.
M4E 1A8
(416) 424-3009

CENTRAL SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	1	.000	.090	.090 (.020)
Primary	0	0	0	.000	.000	.000 (.000)
Conventional Activated Sludge	3	25	28	399.138	2,136.801	2,535.940 (557.840)
Modified Activated Sludge	0	0	0	.000	.000	.000 (.000)
Contact Stabilization	1	2	3	1.045	4.500	5.546 (1.220)
Extended Aeration	12	11	23	35.995	37.286	73.281 (16.120)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	0	1	1	.000	9.092	9.092 (2.000)
Oxidation Ditch	3	0	3	2.786	.000	2.786 (.613)
Aerated Lagoon	0	0	0	.000	.000	.000 (.000)
Conventional Lagoon Continuous	0	4	4	.000	19.147	19.147 (4.212)
Conventional Lagoon Seasonal	1	8	9	.581	11.724	12.306 (2.707)
Conventional Lagoon Annual	0	0	0	.000	.000	.000 (.000)
Lagoon and Spray	1	0	1	.613	.000	.613 (.135)
Aerated Cell Plus Lagoon	0	2	2	.000	4.909	4.909 (1.080)
Exfiltration Lagoon	1	0	1	1.363	.000	1.363 (.300)
TOTALS	22	54	76	441.525 (97.124)	2223.553 (489.182)	2665.078 (586.306)

10^3m/d:	THOUSANDS OF CUBIC METRES PER DAY	CONVERSION FACTOR
mlgd:	MILLION IMPERIAL GALLONS PER DAY	10^3m^3/d = .220 MIGD

01307-PDR.46

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ALLISTON
PLANT : ALLISTON WPCP
WORKS NUMBER : 110001220
TREATMENT : EXTENDED AERATION

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BOYNE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.50 1000 m3
POPULATION SERVED : 4674

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.831	156.0	10.6		30.009	146.0	8.3		23.497	8.0	4.6	13.023
FEB	2.996	178.0	11.3		33.855	113.0	8.7		26.065	6.7	4.6	13.662
MAR	3.358	134.0	15.0		50.370	121.0	10.1		33.916	6.9	3.6	11.954
APR	3.549	97.0	4.8		17.035	86.0	5.2		18.455	5.5	3.5	12.457
MAY	3.066	112.0	7.8		23.915	90.0	7.5		22.995	7.0	4.4	13.337
JUN	3.272	163.0	7.0		22.904	110.0	9.5		31.084	8.1	4.4	14.397
JUL	3.230	131.0	17.0		54.910	124.0	15.6		50.388	7.0	5.7	18.411
AUG	3.215	94.0	8.7		27.970	103.0	13.9		44.688	8.3	5.5	17.715
SEP	3.243	149.0	7.5		24.322	104.0	12.0		38.916	8.1	5.1	16.572
OCT	3.123	110.0	4.8		14.990	66.0	6.7		20.924	8.0	5.8	18.207
NOV	3.259	139.0	4.2		13.688	172.0	6.4		20.858	11.0	6.1	20.010
DEC	3.246	306.0	9.3		30.188	252.0	9.8		31.811	7.2	5.3	17.204
AVERAGE:	3.199	147.0	9.0		28.680	124.0	9.5		30.300	7.7	4.9	15.579
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		27	27			27	27			27	27	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE		89/12/01	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ANSON HINDON MINDEN
PLANT : MINDEN WPCP
WORKS NUMBER : 110002390
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.94 1000 m3
POPULATION SERVED : 984

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GULL RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.686	279.0	1.2		0.823	215.0	1.1		0.755	7.3	0.5	0.322
FEB	0.676	181.0	7.4		5.002	171.0	1.4		0.946	7.1	0.7	0.460
MAR	0.521	146.0	7.9		4.116	179.0	0.9		0.469	6.3	0.2	0.078
APR	0.537	95.0	1.4		0.752	134.0	1.0		0.537	5.0	0.2	0.129
MAY	0.482	74.0	3.7		1.783	73.0	0.9		0.434	4.3	0.4	0.193
JUN	0.489	52.0	2.2		1.076	55.0	0.5		0.244	4.8	0.7	0.318
JUL	0.578	123.0	11.1		6.416	121.0	1.4		0.809	5.6	0.9	0.520
AUG	0.520	135.0	1.4		0.728	135.0	0.5		0.260	6.2	0.6	0.291
SEP	0.451	156.0	1.7		0.767	117.0	0.6		0.271	7.8	ND	ND
OCT	0.470	119.0	1.4		0.658	103.0	1.0		0.470	5.6	0.7	0.310
NOV	0.442	86.0	1.1		0.486	135.0	0.8		0.354	4.1	0.2	0.102
DEC	0.576	82.0	1.8		1.037	111.0	1.0		0.576	5.5	0.3	0.196
AVERAGE:	0.536	127.0	3.5		1.970	129.0	0.9		0.510	5.8	0.5	0.265
OBSERVATIONS:	12	12	12			12	12			12	11	
EXCEEDANCES												
NO OF SAMPLES		19	17			19	17			19	16	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BARRIE
PLANT : BARRIE WPCP
WORKS NUMBER : 120000578
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 27.27 1000 m3
POPULATION SERVED : 40000

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPENFELT BAY L. SIMCOE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	24.936	168.0	8.4		209.462	252.0	13.5		336.636	5.6	0.5	12.468
FEB	25.465	170.0	7.5		190.988	182.0	10.9		277.569	5.3	0.6	14.515
MAR	25.200	132.0	4.9		123.480	183.0	13.9		350.280	ND	0.6	14.364
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	26.753	238.0	17.5		468.178	365.0	14.5		387.918	7.7	0.4	11.771
JUL	28.098	244.0	19.0		533.862	261.0	17.4		488.905	7.2	0.4	11.801
AUG	30.301	192.0	15.2		460.575	237.0	22.0		666.622	6.5	0.6	19.090
SEP	28.061	223.0	9.1		255.355	288.0	8.0		224.488	6.5	0.2	5.332
OCT	26.868	236.0	9.9		265.993	260.0	7.4		198.823	5.9	0.2	5.911
NOV	28.589	156.0	9.5		271.596	248.0	13.3		380.234	5.0	0.3	8.577
DEC	28.834	ND	15.3		441.160	174.0	11.9		343.125	5.0	0.6	15.859
AVERAGE:	27.310	195.0	11.6		322.065	245.0	13.3		365.460	6.1	0.4	11.969
OBSERVATIONS:	10	9	10			10	10			9	10	
EXCEEDANCES												
NO OF SAMPLES		30	44			70	264			69	287	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BEETON
PLANT : BEETON LAGOON
WORKS NUMBER : 110000917
TREATMENT : EXFILTRATION LAGOON

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 2105

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.915	182.0	ND		ND	210.0	ND		ND	8.1	ND	ND
FEB	0.867	152.0	ND		ND	207.0	ND		ND	8.1	ND	ND
MAR	1.226	92.0	ND		ND	100.0	ND		ND	5.5	ND	ND
APR	1.318	102.0	ND		ND	110.0	ND		ND	6.8	ND	ND
MAY	1.016	111.0	ND		ND	100.0	ND		ND	6.6	ND	ND
JUN	0.756	104.0	ND		ND	169.0	ND		ND	6.0	ND	ND
JUL	0.724	124.0	ND		ND	145.0	ND		ND	7.9	ND	ND
AUG	0.682	159.0	ND		ND	172.0	ND		ND	8.6	ND	ND
SEP	0.698	161.0	ND		ND	175.0	ND		ND	8.6	ND	ND
OCT	0.670	79.0	ND		ND	96.0	ND		ND	8.2	ND	ND
NOV	0.787	121.0	ND		ND	253.0	ND		ND	7.2	ND	ND
DEC	0.109	174.0	ND		ND	344.0	ND		ND	8.8	ND	ND
AVERAGE:	0.814	130.0	0.0		0.000	173.0	0.0		0.000	7.5	0.0	0.000
OBSERVATIONS:12		12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		12	0			12	0			12	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BICROFT
PLANT : CARDIFF LAGOON
WORKS NUMBER : 120001032
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.45 1000 m3
POPULATION SERVED : 575

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	466.0	8.5		ND	960.0	10.8		ND	18.5	0.4	ND
FEB	ND	1200.0	0.9		ND	470.0	8.3		ND	81.3	0.5	ND
MAR	ND	312.0	6.3		ND	456.0	4.0		ND	11.4	0.5	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	98.0	7.2		ND	220.0	10.7		ND	6.3	0.4	ND
JUN	ND	20.0	3.0		ND	52.0	13.0		ND	2.1	0.6	ND
JUL	ND	84.0	7.0		ND	59.0	14.1		ND	1.6	0.6	ND
AUG	ND	185.0	4.5		ND	172.0	17.5		ND	5.4	1.9	ND
SEP	ND	37.0	4.0		ND	33.0	5.2		ND	2.2	0.1	ND
OCT	ND	74.0	3.7		ND	39.0	15.5		ND	3.8	0.1	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	46.0	2.5		ND	50.0	9.7		ND	7.0	0.3	ND
AVERAGE:	0.000	252.0	4.8		0.000	251.0	10.9		0.000	14.0	0.5	0.000
OBSERVATIONS:	0	10	10			10	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		10	11			10	11			10	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
SEWER REPAIR UNDERWAY			87/09/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BOBCAYGEON
PLANT : BOBCAYGEON WPCP(SUMMER POP.SERVE 2480)
WORKS NUMBER : 110002498
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.05 1000 m3
POPULATION SERVED : 1328

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BOBCAYGEON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.721	107.0	3.9		2.812	96.0	7.4		5.335	5.2	0.2	0.159
FEB	0.645	90.0	15.2		9.804	68.0	8.3		5.354	3.9	1.3 *	0.826
MAR	0.816	88.0	7.8		6.365	63.0	7.5		6.120	3.9	0.5	0.400
APR	1.048	46.0	11.0		11.528	40.0	10.5		11.004	2.5	0.6	0.618
MAY	0.785	75.0	3.9		3.062	93.0	6.6		5.181	3.6	0.2	0.188
JUN	0.852	64.0	10.6		9.031	79.0	3.5		2.982	3.5	0.2	0.136
JUL	0.978	283.0	10.0		9.780	108.0	7.1		6.944	5.2	0.3	0.244
AUG	0.982	86.0	2.6		2.553	76.0	2.9		2.848	12.6	0.2	0.187
SEP	0.897	66.0	1.8		1.615	157.0	4.9		4.395	6.4	0.4	0.350
OCT	0.847	112.0	2.5		2.118	99.0	3.9		3.303	7.5	0.2	0.203
NOV	0.852	89.0	2.0		1.704	93.0	8.0		6.816	6.1	0.5	0.417
DEC	0.890	128.0	12.6		11.214	162.0	7.6		6.764	4.1	0.7	0.605
AVERAGE:	0.859	103.0	7.0		5.966	94.0	6.5		5.587	5.4	0.4	0.361
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		12	12			12	12			12	20	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRACEBRIDGE
PLANT : BRACEBRIDGE LAGOON
WORKS NUMBER : 120001979
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 2.06 1000 m3
POPULATION SERVED : 0

REGION : CENTRAL
DISTRICT : MUSKOKA - HALIBURTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.408	195.0	ND			132.0	ND			7.6	ND	
FEB	ND	211.0	ND			126.0	ND			7.1	ND	
MAR	0.699	96.0	ND			80.0	ND			4.9	ND	
APR	0.903	106.0	ND			101.0	ND			6.9	ND	
MAY	0.937	152.0	3.5			214.0	9.8			6.2	0.4	
JUN	1.824	193.0	ND			606.0	ND			7.9	ND	
JUL	2.345	ND	ND			ND	ND			ND	ND	
AUG	2.224	ND	ND			ND	ND			ND	ND	
SEP	2.306	ND	ND			ND	ND			ND	ND	
OCT	1.846	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	7.0			ND	4.2			ND	0.5	
DEC	0.832	117.0	ND			94.0	ND			3.2	ND	
AVERAGE:	1.432	153.0	5.3		3.280	193.0	7.0		9.183	6.3	0.4	0.356
OBSERVATIONS:	10	7	2			7	2			7	2	
EXCEEDANCES												
NO OF SAMPLES		10	6			10	6			10	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRACEBRIDGE
PLANT : BRACEBRIDGE WPCP
WORKS NUMBER : 110000034
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 3.19 1000 m3
POPULATION SERVED : 2946

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.735	195.0	5.5		9.543	132.0	5.3		9.196	7.6	0.4	0.694
FEB	1.978	211.0	3.7		7.319	126.0	8.1		16.022	7.1	0.5	0.989
MAR	2.683	96.0	4.4		11.805	80.0	6.5		17.439	4.9	0.3	0.805
APR	2.749	106.0	2.9		7.972	101.0	3.3		9.072	6.9	0.2	0.550
MAY	1.620	152.0	2.6		4.212	214.0	0.8		1.296	6.2	0.6	0.972
JUN	0.739	193.0	2.6		1.921	606.0	1.6		1.182	7.9	0.5	0.369
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	0.553	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.741	179.0	1.2		2.089	99.0	4.4		7.660	6.8	0.5	0.871
DEC	2.219	117.0	2.4		5.326	94.0	7.1		15.755	3.2	0.3	0.666
AVERAGE:	1.780	156.0	3.2		6.273	182.0	4.6		9.703	6.3	0.4	0.740
OBSERVATIONS:	9	8	8			8	8			8	8	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PROGRAM UNDER REVIEW	86/01/31	87/11/30	
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	86/01/31	87/11/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRADFORD
PLANT : BRADFORD WPCP
WORKS NUMBER : 110000944
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 11500

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SCHOMBERG RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.452	149.0	2.9		10.011	502.0	1.7		5.868	8.5	0.2	0.690
FEB	3.278	272.0	3.9		12.784	375.0	2.7		8.851	7.4	0.1	0.262
MAR	3.921	163.0	1.8		7.058	253.0	1.1		4.313	5.5	0.1	0.235
APR	4.522	175.0	2.5		11.305	187.0	1.2		5.426	7.0	0.1	0.226
MAY	3.298	443.0	6.4		21.107	247.0	1.2		3.958	10.7	0.1	0.198
JUN	3.518	59.0	1.4		4.925	282.0	2.9		10.202	8.0	0.0	0.141
JUL	4.273	124.0	3.8		16.237	373.0	2.3		9.828	4.9	0.2	0.684
AUG	3.652	158.0	4.1		14.973	402.0	1.5		5.478	7.8	0.3	1.059
SEP	4.023	158.0	2.9		11.667	608.0	4.9		19.713	6.8	0.3	1.126
OCT	3.770	159.0	4.6		17.342	447.0	2.0		7.540	6.7	0.1	0.490
NOV	4.235	120.0	6.0		25.410	507.0	1.6		6.776	5.2	0.1	0.466
DEC	4.578	173.0	2.0		9.156	279.0	1.0		4.578	6.9	0.1	0.366
AVERAGE:	3.877	179.0	3.5		13.498	372.0	2.0		7.711	7.1	0.1	0.495
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		16	18			224	220			16	178	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRIGHTON
PLANT : BRIGHTON LAGOON
WORKS NUMBER : 110000953
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 3.86 1000 m3
POPULATION SERVED : 3500

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BUTLER CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.873	28.0	4.6		13.216	38.0	1.8		5.171	2.6	0.4	1.034
FEB	2.141	38.0	7.9		16.914	32.0	8.2		17.556	1.9	1.0	2.227
MAR	3.295	76.0	7.2		23.724	120.0	8.8		28.996	3.0	1.0	3.328
APR	3.841	17.0	13.2		50.701	18.0	19.1		73.363	1.0	0.8	2.996
MAY	2.577	50.0	3.8		9.793	48.0	7.1		18.297	3.5	1.0	2.500
JUN	2.082	65.0	5.2		10.826	62.0	5.6		11.659	6.3	1.2 *	2.519
JUL	2.282	32.0	2.0		4.564	37.0	4.5		10.269	2.4	0.6	1.438
AUG	2.650	40.0	5.1		13.515	56.0	1.6		4.240	3.9	0.8	2.226
SEP	ND	75.0	14.6		ND	76.0	2.5		ND	4.7	0.7	ND
OCT	ND	97.0	2.6		ND	98.0	6.3		ND	9.3	0.9	ND
NOV	ND	97.0	3.4		ND	160.0	5.0		ND	6.0	1.0	ND
DEC	4.336	44.0	4.6		19.946	52.0	3.7		16.043	2.5	0.6	2.645
AVERAGE:	2.897	55.0	6.2		18.133	66.0	6.2		20.622	3.9	0.8	2.324
OBSERVATIONS:	9	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BROCK
PLANT : BEAVERTON RIVER 1 LAGOON (SUNDERLAND)
WORKS NUMBER : 120003496
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
EXFILTRATION LAGOON

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.75 1000 m3
POPULATION SERVED : 875

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.280	48.0	ND		ND	129.0	ND		ND	3.3	ND	ND
FEB	0.254	103.0	ND		ND	131.0	ND		ND	5.6	ND	ND
MAR	0.346	367.0	ND		ND	206.0	ND		ND	8.2	ND	ND
APR	0.395	231.0	ND		ND	133.0	ND		ND	ND	ND	ND
MAY	0.287	534.0	ND		ND	242.0	ND		ND	ND	ND	ND
JUN	0.288	158.0	ND		ND	181.0	ND		ND	4.5	ND	ND
JUL	0.324	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	0.261	183.0	ND		ND	146.0	ND		ND	7.8	ND	ND
SEP	0.261	270.0	ND		ND	462.0	ND		ND	29.4	ND	ND
OCT	0.261	253.0	ND		ND	179.0	ND		ND	10.8	ND	ND
NOV	0.257	102.0	ND		ND	163.0	ND		ND	9.0	ND	ND
DEC	0.290	534.0	ND		ND	242.0	ND		ND	ND	ND	ND
AVERAGE:	0.292	253.0	0.0		0.000	201.0	0.0		0.000	9.8	0.0	0.000
OBSERVATIONS:12		11	0			11	0			8	0	
EXCEEDANCES												
NO OF SAMPLES		11	0			11	0			8	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BROCK
PLANT : BEAVERTON RIVER 2 LAGOON (CANNINGTON)
WORKS NUMBER : 110001248
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.92 1000 m3
POPULATION SERVED : 1835

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BEAVERTON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.646	238.0	ND			179.0	ND			26.9	ND	
FEB	0.562	187.0	ND			312.0	ND			10.1	ND	
MAR	1.109	196.0	ND			218.0	ND			3.9	ND	
APR	1.235	53.0	12.4			91.0	15.7			1.7	0.3	
MAY	0.701	197.0	ND			262.0	ND			ND	ND	
JUN	0.650	164.0	ND			105.0	ND			4.6	ND	
JUL	0.864	88.0	ND			88.0	ND			2.8	ND	
AUG	0.627	90.0	ND			121.0	ND			3.6	ND	
SEP	0.597	132.0	ND			222.0	ND			9.9	ND	
OCT	0.695	319.0	ND			651.0	ND			18.8	ND	
NOV	0.966	41.0	4.0			99.0	ND			3.1	0.5	
DEC	1.210	8.0	ND			134.0	ND			4.4	ND	
AVERAGE:	0.822	143.0	8.2		9.589	207.0	15.7		19.390	8.2	0.4	0.382
OBSERVATIONS:	12	12	2			12	1			11	2	
EXCEEDANCES												
NO OF SAMPLES		12	3			12	2			11	3	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BROCK
PLANT : LAKE SIMCOE LAGOON (BEAVERTON)
WORKS NUMBER : 110000908
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.73 1000 m3
POPULATION SERVED : 2570

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.441	110.0	ND			107.0	ND			7.8	ND	
FEB	1.032	133.0	ND			145.0	ND			7.1	ND	
MAR	2.511	125.0	ND			154.0	ND			5.9	ND	
APR	2.368	67.0	7.8			53.0	3.8			2.6	0.0	
MAY	1.169	201.0	ND			165.0	ND			ND	ND	
JUN	1.055	199.0	ND			189.0	ND			7.8	ND	
JUL	1.129	131.0	ND			363.0	ND			5.7	ND	
AUG	0.897	350.0	ND			554.0	ND			13.5	ND	
SEP	0.916	137.0	ND			359.0	ND			7.0	ND	
OCT	0.992	161.0	4.2			217.0	4.0			12.2	0.1	
NOV	1.386	151.0	6.3			974.0	1.2			9.8	0.2	
DEC	2.275	61.0	ND			67.0	ND			5.4	ND	
AVERAGE:	1.431	152.0	6.1		10.456	279.0	3.0		4.876	7.7	0.1	0.162
OBSERVATIONS:	12	12	3			12	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		13	7			13	7			12	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BURLINGTON
PLANT : SKYWAY WPCP
WORKS NUMBER : 110000070
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 93.19 1000 m3
POPULATION SERVED : 120100

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HAMILTON HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	70.930	117.0	21.8		1546.274	170.0	21.9		1553.367	4.7	1.0	70.930
FEB	66.305	251.0	14.9		987.945	336.0	6.4		424.352	15.7	0.6	39.783
MAR	72.078	177.0	8.8		634.286	168.0	7.7		555.001	7.5	0.6	43.247
APR	85.038	133.0	7.8		663.296	139.0	6.3		535.739	7.2	0.8	68.030
MAY	63.308	200.0	9.0		569.772	191.0	7.0		443.156	12.3	0.7	44.316
JUN	63.876	144.0	5.2		332.155	184.0	6.6		421.582	8.8	0.9	57.488
JUL	67.158	131.0	4.1		275.348	153.0	6.2		416.380	8.4	0.7	47.011
AUG	65.525	153.0	5.4		353.835	175.0	2.7		176.918	3.7	0.7	45.867
SEP	62.609	169.0	3.4		212.871	247.0	3.4		212.871	6.3	0.5	31.305
OCT	57.598	176.0	14.2		817.892	230.0	8.5		489.583	7.1	0.6	34.559
NOV	59.839	235.0	7.8		466.744	397.0	7.3		436.825	9.3	0.5	29.919
DEC	70.123	225.0	9.3		652.144	157.0	4.0		280.492	3.3	0.4	28.049
AVERAGE:	67.032	176.0	9.3		626.047	212.0	7.3		495.522	7.9	0.7	45.042
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		48	47			49	49			49	49	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CAMPBELLFORD
PLANT : CAMPBELLFORD WPCP
WORKS NUMBER : 110000962
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.90 1000 m3
POPULATION SERVED : 3247

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRENT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	5.684	27.0	6.4		36.378	55.0	4.2		23.873	1.8	0.9	5.343
FEB	5.036	56.0	12.5		62.950	30.0	5.2		26.187	2.6	1.1 *	5.590
MAR	8.245	23.0	8.7		71.731	45.0	5.6		46.172	1.4	0.8	6.349
APR	8.383	38.0	3.4		28.502	60.0	5.0		41.915	1.4	0.6	5.197
MAY	6.135	36.0	ND		ND	41.0	5.0		30.675	2.0	0.9	5.583
JUN	6.250	14.0	3.8		23.750	29.0	4.0		25.000	1.8	1.1 *	6.875
JUL	5.877	25.0	1.3		7.640	28.0	5.7		33.499	1.9	1.2 *	7.052
AUG	5.823	79.0	5.8		33.773	24.0	4.9		28.533	1.8	0.7	4.309
SEP	5.627	65.0	3.8		21.383	149.0	6.5		36.575	2.8	0.5	2.757
OCT	5.423	34.0	3.9		21.150	24.0	5.5		29.826	2.3	0.6	3.471
NOV	5.717	44.0	5.2		29.728	63.0	3.5		20.009	2.9	0.4	2.515
DEC	7.806	22.0	3.9		30.443	22.0	4.3		33.566	1.9	0.3	2.342
AVERAGE:	6.334	39.0	5.3		33.403	48.0	5.0		31.319	2.1	0.8	4.782
OBSERVATIONS:12		12	11			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		12	12			22	24			19	106	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/09/01	87/10/31	
FACILITY OPERATIONAL			
CONDUCTING TREATABILITY STUDIES	87/04/01	87/04/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 1
WORKS NUMBER : 120000097
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 16.04 1000 m3
POPULATION SERVED : 5500

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COBOURG BROOK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	7.984	522.0	9.7		77.445	355.0	10.3		82.235	3.4	0.4	2.954
FEB	7.152	573.0	21.4		153.053	329.0	12.8		91.546	ND	0.8	5.364
MAR	8.844	537.0	40.9		361.720	465.0	42.6		376.754	6.4	1.4 *	12.647
APR	10.767	476.0	38.2		411.299	327.0	25.9		278.865	4.6	0.6	5.922
MAY	8.697	627.0	21.4		186.116	345.0	16.5		143.500	5.4	0.6	4.870
JUN	6.814	729.0	17.1		116.519	466.0	10.1		68.821	5.6	0.5	3.271
JUL	5.592	572.0	14.1		78.847	429.0	9.3		52.006	5.7	0.7	4.082
AUG	5.614	557.0	12.4		69.614	414.0	10.8		60.631	7.4	0.6	3.593
SEP	6.819	566.0	15.5		105.695	369.0	9.2		62.735	4.4	1.7 *	11.388
OCT	6.581	554.0	10.7		70.417	336.0	10.0		65.810	7.1	1.4 *	9.345
NOV	7.709	403.0	15.5		119.489	269.0	16.4		126.428	3.7	1.4 *	10.638
DEC	8.612	360.0	16.0		137.792	280.0	10.9		93.871	4.0	0.8	6.717
AVERAGE:	7.599	540.0	19.4		157.334	365.0	15.4		125.267	5.2	0.9	6.733
OBSERVATIONS:12		12	12			12	12			11	12	
EXCEEDANCES											4	
NO OF SAMPLES		147	132			249	243			61	75	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING SEWER-USE BYLAW			
CONTINUOUS PHOSPHORUS REMOVAL FACILITIES BEING INSTALLED			89/01/01

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 2
WORKS NUMBER : 120003192
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.86 1000 m3
POPULATION SERVED : 5500

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	5.667	111.0	29.6		167.743	83.0	10.7		60.637	2.4	0.8	4.760
FEB	3.465	166.0	20.7		71.725	188.0	22.5		77.962	3.2	0.8	2.599
MAR	3.682	103.0	6.9		25.406	137.0	14.6		53.757	2.2	0.5	1.804
APR	4.916	100.0	9.4		46.210	195.0	19.2		94.387	2.6	0.6	2.900
MAY	2.846	86.0	9.7		27.606	160.0	12.5		35.575	2.7	1.1 *	2.988
JUN	3.071	105.0	5.7		17.505	164.0	8.7		26.718	2.7	0.5	1.658
JUL	3.547	152.0	5.8		20.573	164.0	8.9		31.568	4.2	0.8	2.873
AUG	3.145	114.0	5.8		18.241	185.0	8.7		27.361	3.5	0.4	1.258
SEP	2.848	129.0	5.3		15.094	237.0	9.7		27.626	3.9	1.0	2.820
OCT	2.268	147.0	4.1		9.299	232.0	8.1		18.371	4.9	0.5	1.202
NOV	2.268	131.0	10.4		23.587	193.0	13.0		29.484	5.2	0.5	1.179
DEC	2.978	102.0	16.0		47.648	179.0	18.8		55.986	4.1	0.7	2.025
AVERAGE:	3.392	120.0	10.8		40.886	176.0	13.0		44.953	3.5	0.7	2.339
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		90	97			177	212			50	53	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COLBORNE
PLANT : COLBORNE WPCP
WORKS NUMBER : 120000088
TREATMENT : EXTENDED AERATION
POLISHING LAGOON(S)
DENITRIFICATION
DESIGN CAPACITY : 6.25 1000 m3
POPULATION SERVED : 1800

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COLBORNE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.755	83.0	1.6		1.208	69.0	0.6		0.453	4.2	0.1	0.098
FEB	0.652	51.0	2.2		1.434	26.0	0.1		0.065	2.8	0.2	0.124
MAR	1.282	22.0	5.2		6.666	93.0	11.6		14.871	1.9	0.2	0.231
APR	1.432	54.0	14.9		21.337	59.0	32.9		47.113	3.2	0.1	0.200
MAY	0.844	31.0	4.7		3.967	26.0	2.5		2.110	2.4	0.2	0.160
JUN	0.905	92.0	1.8		1.629	84.0	1.1		0.996	5.3	0.2	0.208
JUL	0.805	51.0	3.2		2.576	56.0	2.8		2.254	3.5	0.3	0.225
AUG	0.734	117.0	1.8		1.321	106.0	0.5		0.367	7.5	0.2	0.139
SEP	0.746	153.0	3.4		2.536	210.0	1.6		1.194	7.6	0.4	0.283
OCT	0.667	76.0	1.5		1.001	96.0	1.5		1.001	6.6	0.3	0.193
NOV	0.667	120.0	1.3		0.867	78.0	1.3		0.867	3.9	0.3	0.173
DEC	1.162	64.0	1.7		1.975	38.0	0.9		1.046	2.9	0.2	0.198
AVERAGE:	0.888	76.0	3.6		3.876	78.0	4.8		6.028	4.3	0.2	0.186
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COLDWATER
PLANT : COLDWATER WPCP
WORKS NUMBER : 110001596
TREATMENT : EXTENDED AERATION

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : COLDWATER RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 761

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.362	107.0	5.8		2.100	99.0	6.9		2.498	5.3	3.2	1.166
FEB	0.357	142.0	12.4		4.427	99.0	16.4		5.855	4.3	3.0	1.067
MAR	0.614	76.0	9.3		5.710	90.0	8.9		5.465	4.0	2.4	1.486
APR	0.482	110.0	1.3		0.627	142.0	3.1		1.494	5.6	1.2	0.559
MAY	0.315	229.0	27.1		8.537	316.0	5.9		1.859	7.7	4.2	1.310
JUN	0.306	156.0	14.2		4.345	170.0	18.0		5.508	6.2	3.5	1.065
JUL	0.316	85.0	5.2		1.643	120.0	16.1		5.088	5.5	3.3	1.027
AUG	0.314	109.0	4.7		1.476	94.0	8.7		2.732	6.5	5.1	1.589
SEP	0.287	147.0	6.7		1.923	113.0	6.5		1.865	7.4	3.4	0.970
OCT	0.304	158.0	3.1		0.942	83.0	7.6		2.310	6.5	5.5	1.657
NOV	0.356	116.0	4.3		1.531	97.0	9.5		3.382	7.4	4.0	1.438
DEC	0.451	74.0	6.5		2.932	75.0	11.7		5.277	4.7	3.3	1.484
AVERAGE:	0.372	126.0	8.4		3.016	125.0	9.9		3.611	5.9	3.5	1.235
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		17	17			17	17			17	17	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COLLINGWOOD
PLANT : COLLINGWOOD WPCP
WORKS NUMBER : 120000550
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 24.54 1000 m3
POPULATION SERVED : 11500

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	14.124	185.0	6.0		84.744	160.0	8.0		112.992	11.7	1.5 *	21.186
FEB	12.678	168.0	5.0		63.390	129.0	11.0		139.458	7.2	0.9	11.410
MAR	18.745	120.0	6.7		125.592	83.0	22.0		412.390	7.2	1.6 *	29.992
APR	19.331	143.0	13.7		264.835	104.0	18.6		359.557	5.5	1.3 *	25.130
MAY	15.103	122.0	2.4		36.247	144.0	8.0		120.824	14.0	0.6	9.062
JUN	15.516	124.0	2.9		44.996	154.0	11.4		176.882	10.0	0.5	7.758
JUL	15.157	104.0	4.0		60.628	126.0	18.0		272.826	3.3	0.3	4.547
AUG	16.165	90.0	2.4		38.796	129.0	17.4		281.271	10.5	0.8	12.932
SEP	13.891	150.0	7.0		97.237	179.0	12.0		166.692	3.6	0.6	8.335
OCT	14.500	133.0	5.9		85.550	103.0	6.4		92.800	4.7	0.5	7.830
NOV	17.182	133.0	7.0		120.274	79.0	8.0		137.456	4.9	0.9	14.605
DEC	20.682	76.0	6.0		124.092	73.0	9.0		186.138	3.5	0.5	10.341
AVERAGE:	16.089	129.0	5.8		95.532	122.0	12.5		204.941	7.2	0.8	13.594
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		91	91			220	197			218	212	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COOKSTOWN
PLANT : COOKSTOWN WPCP (IN OPERATION 1987)
WORKS NUMBER : 110002265
TREATMENT : EXTENDED AERATION

REGION : CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY
WATERCOURSE :
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION :

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 25 mg/l
SS - INSUFFICIENT DATA SS - 25 mg/l
TP - INSUFFICIENT DATA TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES — START DATE — END DATE — ANTICIPATED COMPLIANCE

NONE

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DYSART-ET-AL
PLANT : HALIBURTON WPCP
WORKS NUMBER : 110001603
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 875

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DRAG R. TO GRASS LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.201	195.0	0.9		0.181	98.0	1.3		0.261	6.2	0.1	0.022
FEB	0.212	32.0	7.5		1.590	20.0	4.2		0.890	2.2	0.3	0.055
MAR	0.253	109.0	6.4		1.619	92.0	5.3		1.341	4.8	0.3	0.066
APR	0.392	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.336	45.0	3.6		1.210	25.0	7.2		2.419	1.8	0.5	0.161
JUN	0.402	29.0	8.4		3.377	29.0	5.6		2.251	5.5	1.0	0.402
JUL	0.343	67.0	4.5		1.544	41.0	3.5		1.201	3.3	0.5	0.161
AUG	0.325	127.0	3.6		1.170	73.0	4.6		1.495	8.1	0.6	0.192
SEP	0.336	73.0	1.4		0.470	65.0	2.3		0.773	4.7	0.4	0.141
OCT	0.354	68.0	10.6		3.752	55.0	9.2		3.257	5.6	1.0	0.340
NOV	0.376	49.0	7.0		2.632	77.0	5.1		1.918	7.5	0.3	0.098
DEC	0.277	51.0	3.7		1.025	101.0	4.8		1.330	5.9	0.4	0.097
AVERAGE:	0.317	77.0	5.2		1.688	62.0	4.8		1.558	5.1	0.5	0.158
OBSERVATIONS:	12	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		11	11			11	11			11	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAST GWILLIMBURY
PLANT : HOLLAND LANDING LAGOON
WORKS NUMBER : 120001620
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 2200

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HOLLAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.919	99.0	ND			104.0	ND			5.3	ND	
FEB	0.820	427.0	ND			223.0	ND			9.9	ND	
MAR	1.096	112.0	ND			160.0	ND			7.4	ND	
APR	1.352	61.0	ND			62.0	ND			3.6	ND	
MAY	0.887	198.0	12.8			136.0	12.0			6.0	0.5	
JUN	0.983	119.0	ND			112.0	ND			8.9	ND	
JUL	1.196	82.0	ND			61.0	ND			2.9	ND	
AUG	0.883	106.0	ND			212.0	ND			8.4	ND	
SEP	0.798	107.0	ND			96.0	ND			5.4	ND	
OCT	0.861	179.0	ND			104.0	ND			6.7	ND	
NOV	1.093	84.0	10.3			75.0	8.3			6.4	0.3	
DEC	1.456	111.0	ND			265.0	ND			9.2	ND	
AVERAGE:	1.029	140.0	11.6		11.306	134.0	10.2		9.858	6.7	0.4	0.353
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		12	8			12	8			12	8	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAST GWILLIMBURY
PLANT : MOUNT ALBERT WPCP
WORKS NUMBER : 120001853
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 1100

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MOUNT ALBERT CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.265	246.0	ND		ND	178.0	ND		ND	9.5	ND	ND
FEB	0.263	264.0	ND		ND	121.0	ND		ND	9.5	ND	ND
MAR	0.297	113.0	ND		ND	103.0	ND		ND	9.8	ND	ND
APR	0.331	136.0	12.8		4.237	136.0	24.9		8.242	8.2	0.3	0.083
MAY	0.284	243.0	26.9		7.640	132.0	42.2		11.985	9.5	0.3	0.080
JUN	0.298	150.0	ND		ND	203.0	ND		ND	9.5	ND	ND
JUL	0.336	94.0	ND		ND	172.0	ND		ND	4.8	ND	ND
AUG	0.281	262.0	ND		ND	166.0	ND		ND	16.5	ND	ND
SEP	0.247	209.0	ND		ND	83.0	ND		ND	9.6	ND	ND
OCT	0.229	136.0	ND		ND	100.0	ND		ND	7.2	ND	ND
NOV	0.226	210.0	9.2		2.079	128.0	23.5		5.311	8.4	0.3	0.057
DEC	0.244	196.0	5.6		1.366	128.0	14.3		3.489	8.4	0.2	0.051
AVERAGE:	0.275	188.0	13.6		3.831	138.0	26.2 *		7.257	9.2	0.2	0.068
OBSERVATIONS:	12	12	4			12	4			12	4	
EXCEEDANCES												
NO OF SAMPLES		12	19			12	18			12	21	

COMPLIANCE :

CRITERIA :

BOD - INSUFFICIENT DATA BOD - 25 mg/l
SS - INSUFFICIENT DATA SS - 25 mg/l
TP - INSUFFICIENT DATA TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ELMVALE
PLANT : ELMVALE LAGOON
WORKS NUMBER : 110000169
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WYE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.75 1000 m3
POPULATION SERVED : 1200

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.968	186.0	14.6		14.133	279.0	11.1		10.745	5.0	3.5	3.388
FEB	0.780	124.0	ND		ND	111.0	ND		ND	11.3	ND	ND
MAR	1.700	45.0	20.9		35.530	37.0	13.1		22.270	2.1	3.1	5.270
APR	1.420	34.0	32.0		45.440	28.0	21.5		30.530	1.9	2.2	3.124
MAY	0.929	126.0	28.0		26.012	213.0	26.0		24.154	6.9	2.0	1.858
JUN	0.929	105.0	21.2		19.695	214.0	17.1		15.886	5.2	2.4	2.230
JUL	0.836	77.0	14.6		12.206	377.0	19.0		15.884	6.2	2.1	1.756
AUG	0.902	137.0	12.6		11.365	144.0	22.3		20.115	2.3	3.1	2.796
SEP	0.879	152.0	13.2		11.603	130.0	8.6		7.559	6.2	3.6	3.164
OCT	1.085	134.0	8.7		9.439	146.0	8.1		8.788	13.6	2.7	2.929
NOV	1.450	120.0	22.2		32.190	157.0	25.7		37.265	13.0	3.5	5.075
DEC	1.613	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	1.124	113.0	18.8		21.761	167.0	17.3		19.320	6.7	2.8	3.159
OBSERVATIONS:	12	11	10			11	10			11	10	
EXCEEDANCES												
NO OF SAMPLES		11	10			11	10			11	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ESSA
PLANT : ANGUS WPCP
WORKS NUMBER : 110003282
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.39 1000 m3
POPULATION SERVED : 2560

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NOTTAWASAGA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.782	184.0	2.7		2.111	142.0	7.8		6.100	10.0	0.3	0.211
FEB	0.645	143.0	8.7		5.611	105.0	7.6		4.902	6.6	0.3	0.194
MAR	0.947	124.0	3.5		3.314	96.0	10.4		9.849	6.0	0.3	0.303
APR	1.191	128.0	3.3		3.930	176.0	4.6		5.479	7.9	0.1	0.107
MAY	0.724	195.0	7.0		5.068	191.0	10.3		7.457	7.3	0.3	0.181
JUN	0.759	130.0	2.3		1.746	146.0	2.1		1.594	6.4	0.2	0.159
JUL	0.792	102.0	2.9		2.297	127.0	3.1		2.455	6.5	0.1	0.103
AUG	0.681	116.0	2.1		1.430	89.0	3.4		2.315	7.5	0.1	0.075
SEP	0.669	142.0	5.4		3.613	127.0	4.5		3.011	9.1	0.2	0.120
OCT	0.678	151.0	2.4		1.627	83.0	3.9		2.644	10.0	0.2	0.149
NOV	0.827	294.0	3.3		2.729	101.0	5.8		4.797	7.0	0.3	0.256
DEC	0.959	246.0	2.9		2.781	508.0	8.1		7.768	14.3	0.2	0.221
AVERAGE:	0.805	163.0	3.9		3.021	158.0	6.0		4.864	8.2	0.2	0.173
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		20	21			20	21			21	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FENELON FALLS
PLANT : FENELON FALLS WPCP(SUMMER POPSERVE 3136)
WORKS NUMBER : 110001612
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.00 1000 m3
POPULATION SERVED : 1666

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FENELON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.703	229.0	16.0		11.248	184.0	16.3		11.459	7.0	0.8	0.569
FEB	0.714	104.0	4.3		3.070	98.0	5.0		3.570	5.6	0.3	0.207
MAR	1.226	89.0	30.0		36.780	89.0	27.0		33.102	5.4	1.3 *	1.532
APR	1.034	35.0	6.8		7.031	37.0	24.8		25.643	2.6	0.7	0.672
MAY	0.747	111.0	9.3		6.947	25.0	21.8		16.285	6.3	0.2	0.172
JUN	0.687	119.0	8.1		5.565	106.0	6.0		4.122	6.7	0.4	0.282
JUL	0.772	121.0	7.3		5.636	166.0	12.0		9.264	7.0	0.2	0.170
AUG	0.785	93.0	8.9		6.987	62.0	5.4		4.239	6.0	0.2	0.165
SEP	0.802	93.0	2.5		2.005	101.0	5.6		4.491	6.3	0.4	0.329
OCT	0.748	ND	ND		ND	ND	ND		ND	ND	0.5	0.337
NOV	0.904	73.0	7.6		6.870	74.0	10.6		9.582	5.8	1.0	0.868
DEC	1.028	87.0	5.3		5.448	84.0	7.5		7.710	5.9	0.4	0.442
AVERAGE:	0.846	105.0	9.6		8.872	93.0	12.9		11.770	5.9	0.5	0.479
OBSERVATIONS:12		11	11			11	11			11	12	
EXCEEDANCES											1	
NO OF SAMPLES		12	12			12	12			13	16	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GEORGINA
PLANT : KESWICK WPCP
WORKS NUMBER : 120001755
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 12.06 1000 m3
POPULATION SERVED : 8000

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COOK BAY(L.SIMCOE)
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.214	67.0	3.1		6.863	85.0	0.9		1.993	3.7	ND	ND
FEB	2.095	78.0	3.5		7.333	52.0	1.3		2.724	3.8	0.2	0.356
MAR	2.679	81.0	2.7		7.233	72.0	0.2		0.536	4.2	0.2	0.563
APR	2.724	93.0	1.0		2.724	68.0	0.6		1.634	3.5	0.2	0.545
MAY	2.296	92.0	1.5		3.444	93.0	2.6		5.970	16.8	0.2	0.482
JUN	2.425	86.0	1.3		3.152	157.0	0.5		1.212	4.2	0.2	0.509
JUL	2.530	99.0	1.6		4.048	122.0	0.9		2.277	3.9	0.3	0.658
AUG	2.385	62.0	2.0		4.770	72.0	0.5		1.192	4.4	0.3	0.620
SEP	2.422	69.0	1.2		2.906	98.0	0.9		2.180	5.6	0.2	0.581
OCT	2.712	310.0	1.3		3.526	84.0	0.1		0.271	6.7	0.2	0.515
NOV	3.160	92.0	2.0		6.320	130.0	2.3		7.268	4.8	0.1	0.284
DEC	3.394	71.0	2.3		7.806	87.0	0.8		2.715	4.1	0.3	0.849
AVERAGE:	2.586	100.0	2.0		5.010	93.0	1.0		2.498	5.5	0.2	0.542
OBSERVATIONS:12		12	12			12	12			12	11	
EXCEEDANCES												
NO OF SAMPLES		23	24			23	23			22	20	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GEORGINA
PLANT : SUTTON WPCP
WORKS NUMBER : 110001168
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.04 1000 m3
POPULATION SERVED : 2650

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.072	49.0	6.8		7.290	47.0	1.2		1.286	3.6	0.2	0.161
FEB	1.010	150.0	4.3		4.343	141.0	1.3		1.313	6.4	0.1	0.131
MAR	1.406	173.0	6.1		8.577	106.0	4.3		6.046	5.2	0.2	0.295
APR	1.457	110.0	8.9		12.967	60.0	7.3		10.636	4.5	0.2	0.277
MAY	1.246	123.0	7.3		9.096	129.0	6.2		7.725	4.9	1.2 *	1.533
JUN	1.223	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	1.475	122.0	3.2		4.720	111.0	4.3		6.343	5.2	0.7	1.032
AUG	1.246	126.0	7.1		8.847	75.0	11.7		14.578	5.8	0.6	0.760
SEP	1.092	104.0	1.4		1.529	111.0	2.4		2.621	5.9	0.2	0.197
OCT	1.102	110.0	1.5		1.653	72.0	0.1		0.110	4.7	0.3	0.331
NOV	1.421	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	1.478	72.0	2.9		4.286	69.0	0.9		1.330	4.1	0.1	0.133
AVERAGE:	1.269	114.0	5.0		6.331	92.0	4.0		5.199	5.0	0.4	0.485
OBSERVATIONS:12		10	10			10	10			10	10	
EXCEEDANCES											1	
NO OF SAMPLES		13	13			13	13			13	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GRAVENHURST
PLANT : GRAVENHURST WPCP (DUAL OPERATION)
WORKS NUMBER : 120000809
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 3.04 1000 m3
POPULATION SERVED : 4782

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.259	128.0	5.3		11.973	125.0	10.8		24.397	7.3	0.4	0.904
FEB	2.097	129.0	9.5		19.921	77.0	14.6		30.616	5.5	0.7	1.363
MAR	3.098	ND	11.4		35.317	ND	15.9		49.258	ND	0.9	2.788
APR	3.385	153.0	12.7		42.989	109.0	11.9		40.282	6.8	0.9	2.945
MAY	2.704	105.0	3.6		9.734	67.0	6.1		16.494	6.1	0.9	2.298
JUN	2.688	172.0	5.2		13.978	223.0	3.8		10.214	7.6	0.3	0.806
JUL	2.586	62.0	7.7		19.912	95.0	5.7		14.740	5.2	0.3	0.776
AUG	2.040	105.0	4.5		9.180	114.0	5.3		10.812	7.5	0.2	0.428
SEP	1.999	121.0	1.8		3.598	143.0	ND		ND	6.3	0.4	0.800
OCT	1.963	163.0	2.7		5.300	91.0	9.6		18.845	9.4	0.5	0.923
NOV	1.982	215.0	4.7		9.315	102.0	5.5		10.901	6.4	0.3	0.535
DEC	1.815	91.0	9.6		17.424	61.0	2.0		3.630	4.2	0.3	0.490
AVERAGE:	2.385	131.0	6.6		16.553	110.0	8.3		20.926	6.6	0.5	1.255
OBSERVATIONS:	12	11	12			11	11			11	12	
EXCEEDANCES												
NO OF SAMPLES		12	13			12	12			12	256	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NEW EQUIPMENT IS BEING INSTALLED	86/12/31	91/01/01	91/01/01
ENVIRONMENTAL ASSESSMENT PROCESS	1986	1991	1991
CHANGE OF PHOSPHORUS REMOVAL CHEMICAL	1986	1991	1991

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HALTON HILLS
PLANT : ACTON WPCP + LAGOON
WORKS NUMBER : 120001023
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 7478

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.186	128.0	4.1		17.163	142.0	6.8		28.465	10.6	0.7	2.721
FEB	4.368	165.0	3.7		16.162	172.0	5.3		23.150	11.6	1.8 *	7.862
MAR	3.700	278.0	2.5		9.250	318.0	5.6		20.720	9.2	1.0	3.663
APR	4.400	113.0	2.2		9.680	146.0	7.6		33.440	4.8	0.5	1.980
MAY	3.700	198.0	1.1		4.070	200.0	4.4		16.280	9.2	0.1	0.481
JUN	3.500	138.0	2.1		7.350	197.0	6.4		22.400	8.3	0.3	0.945
JUL	3.000	159.0	0.7		2.100	123.0	2.7		8.100	8.3	0.6	1.800
AUG	3.200	87.0	1.4		4.480	157.0	1.4		4.480	5.8	0.3	0.896
SEP	3.400	133.0	0.9		3.060	281.0	1.4		4.760	6.9	0.3	1.054
OCT	2.600	159.0	1.4		3.640	198.0	4.0		10.400	5.7	0.5	1.300
NOV	2.700	232.0	2.0		5.400	177.0	3.8		10.260	5.6	0.2	0.459
DEC	2.900	ND	1.0		2.900	ND	3.6		10.440	ND	0.6	1.653
AVERAGE:	3.471	163.0	1.9		7.105	192.0	4.4		16.075	7.8	0.6	2.068
OBSERVATIONS:12		11	12			11	12			11	12	
EXCEEDANCES											1	
NO OF SAMPLES		30	30			31	31			31	30	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HALTON HILLS
PLANT : GEORGETOWN WPCP
WORKS NUMBER : 110000294
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 13.63 1000 m3
POPULATION SERVED : 20100

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SILVER CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	8.000	92.0	8.1		64.800	100.0	3.8		30.400	5.3	0.7	5.600
FEB	9.000	115.0	8.3		74.700	105.0	4.1		36.900	6.7	0.7	6.300
MAR	11.400	192.0	5.4		61.560	103.0	3.0		34.200	5.4	0.6	6.840
APR	12.800	138.0	5.1		65.280	179.0	3.7		47.360	9.0	0.6	7.680
MAY	9.400	152.0	3.6		33.840	181.0	2.9		27.260	12.3	0.7	6.580
JUN	9.900	268.0	3.1		30.690	426.0	3.0		29.700	9.8	0.8	7.920
JUL	9.700	193.0	2.0		19.400	224.0	3.3		32.010	9.4	0.7	6.790
AUG	9.500	190.0	3.0		28.500	227.0	3.3		31.350	12.3	0.6	5.700
SEP	9.600	144.0	0.5		4.800	307.0	2.8		26.880	10.1	0.3	2.880
OCT	9.400	146.0	2.0		18.800	232.0	1.2		11.280	10.0	0.4	3.760
NOV	10.959	132.0	5.5		60.274	171.0	2.1		23.014	9.7	0.6	6.575
DEC	12.440	193.0	3.3		41.052	179.0	1.7		21.148	7.8	0.2	2.488
AVERAGE:	10.175	163.0	4.2		41.975	203.0	2.9		29.292	9.0	0.6	5.759
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		137	134			141	140			140	137	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HASTINGS
PLANT : HASTINGS WPCP
WORKS NUMBER : 110001827
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.05 1000 m3
POPULATION SERVED : 945

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRENT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.751	144.0	12.3		9.237	153.0	37.8		28.388	5.3	1.3 *	0.954
FEB	0.751	23.0	6.7		5.032	10.0	7.9		5.933	1.2	0.1	0.105
MAR	1.071	17.0	11.0		11.781	24.0	10.4		11.138	0.8	0.8	0.846
APR	1.158	11.0	3.0		3.474	13.0	6.8		7.874	1.3	0.3	0.324
MAY	0.655	27.0	4.6		3.013	18.0	5.6		3.668	2.2	0.3	0.183
JUN	0.433	20.0	1.0		0.433	26.0	4.0		1.732	1.4	1.7 *	0.736
JUL	0.349	31.0	6.1		2.129	27.0	4.1		1.431	1.6	0.2	0.070
AUG	0.357	ND	ND		ND	ND	ND		ND	ND	0.3	0.121
SEP	0.711	23.0	1.0		0.711	85.0	7.5		5.332	2.6	0.3	0.192
OCT	0.740	28.0	1.2		0.888	19.0	11.2		8.288	2.5	1.0	0.725
NOV	0.825	53.0	3.8		3.135	165.0	8.1		6.682	3.8	0.2	0.148
DEC	0.938	38.0	1.5		1.407	41.0	0.5		0.469	5.0	0.0	0.028
AVERAGE:	0.728	38.0	4.7		3.749	53.0	9.4		7.358	2.5	0.5	0.369
OBSERVATIONS:12		11	11			11	11			11	12	
EXCEEDANCES											2	
NO OF SAMPLES		11	11			11	11			12	31	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAVELOCK
PLANT : HAVELOCK LAGOON
WORKS NUMBER : 110001765
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.58 1000 m3
POPULATION SERVED : 1356

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : PLATO CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.734	105.0	ND			168.0	ND			6.0	ND	
FEB	0.704	350.0	ND			132.0	ND			7.8	ND	
MAR	0.924	ND	ND			ND	ND			ND	ND	
APR	1.187	56.0	5.5			67.0	4.5			2.7	0.3	
MAY	0.894	101.0	ND			96.0	ND			4.5	ND	
JUN	0.799	126.0	ND			151.0	ND			4.8	ND	
JUL	0.737	61.0	ND			60.0	ND			4.1	ND	
AUG	0.732	60.0	ND			81.0	ND			4.1	ND	
SEP	0.741	ND	ND			ND	ND			ND	ND	
OCT	0.691	ND	ND			ND	ND			ND	ND	
NOV	0.743	81.0	6.2			86.0	1.7			4.9	0.2	
DEC	0.940	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.819	118.0	5.9		5.568	105.0	3.1		3.302	4.9	0.3	0.264
OBSERVATIONS:	12	8	2			8	2			8	2	
EXCEEDANCES												
NO OF SAMPLES		15	17			15	16			15	15	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HUNTSVILLE
PLANT : HUNTSVILLE WPCP
WORKS NUMBER : 110000347
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 3016

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.820	105.0	5.4		15.228	105.0	6.8		19.176	8.4	0.3	0.846
FEB	2.658	194.0	6.2		16.480	116.0	8.4		22.327	6.1	0.2	0.532
MAR	3.875	107.0	9.1		35.262	77.0	8.5		32.938	4.7	0.4	1.550
APR	4.118	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	3.062	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	2.890	138.0	8.8		25.432	123.0	3.1		8.959	6.2	0.4	1.156
JUL	3.036	175.0	2.8		8.501	117.0	5.4		16.394	6.0	0.8	2.429
AUG	3.360	121.0	2.7		9.072	81.0	5.2		17.472	7.7	0.5	1.680
SEP	2.669	115.0	1.1		2.936	82.0	3.5		9.341	9.8	0.5	1.335
OCT	2.968	159.0	8.2		24.338	78.0	9.9		29.383	4.4	0.7	2.078
NOV	3.201	114.0	3.9		12.484	136.0	6.5		20.806	4.9	0.3	0.960
DEC	4.115	74.0	3.9		16.049	80.0	6.4		26.336	3.3	0.4	1.646
AVERAGE:	3.231	130.0	5.2		16.578	100.0	6.4		20.313	6.2	0.4	1.421
OBSERVATIONS:	12	10	10			10	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		10	10			10	10			10	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : INNISFIL
PLANT : INNISFIL(ALCONA)WPCP IN OP 1987
WORKS NUMBER : 110002586
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 7.27 1000 m3
POPULATION SERVED : 2600

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE SIMCOE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION :

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	2.159	119.0	1.1		2.375	70.0	0.1		0.216	6.5	0.0	0.022
SEP	0.772	79.0	1.6		1.235	117.0	0.1		0.077	5.2	0.1	0.062
OCT	0.715	103.0	2.3		1.644	96.0	0.8		0.572	6.0	0.6	0.415
NOV	0.757	84.0	1.3		0.984	97.0	0.7		0.530	3.8	0.2	0.167
DEC	0.787	71.0	1.7		1.338	77.0	0.7		0.551	4.5	0.1	0.094
AVERAGE:	1.038	91.0	1.6		1.515	91.0	0.5		0.389	5.2	0.2	0.152
OBSERVATIONS:	5	5	5			5	5			5	5	
EXCEEDANCES												
NO OF SAMPLES		8	8			24	8			8	8	

COMPLIANCE :

BOD - INSUFFICIENT DATA
SS - INSUFFICIENT DATA
TP - INSUFFICIENT DATA

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UPGRADING COMPLETED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LAKEFIELD
PLANT : LAKEFIELD LAGOON
WORKS NUMBER : 110001462
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.59 1000 m3
POPULATION SERVED : 2324

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTONABEE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.299	91.0	ND			52.0	ND			2.0	ND	
FEB	1.174	132.0	ND			152.0	ND			6.5	ND	
MAR	1.900	23.0	20.2			20.0	19.5			0.9	0.9	
APR	2.199	46.0	25.7			66.0	47.3			3.7	0.9	
MAY	1.225	105.0	ND			126.0	ND			10.7	ND	
JUN	1.161	38.0	ND			69.0	ND			2.6	ND	
JUL	1.158	38.0	ND			66.0	ND			2.9	ND	
AUG	1.011	49.0	ND			194.0	ND			1.9	ND	
SEP	1.037	99.0	ND			134.0	ND			9.2	ND	
OCT	1.052	160.0	19.2			265.0	17.5			9.1	0.6	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	1.794	71.0	ND			151.0	ND			5.4	ND	
AVERAGE:	1.365	78.0	21.7		38.364	118.0	28.1		53.158	5.0	0.8	1.440
OBSERVATIONS:	11	11	13			11	13			11	13	
EXCEEDANCES												
NO OF SAMPLES		11	13			11	13			11	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LINDSAY
PLANT : LINDSAY LAGOON
WORKS NUMBER : 110000383
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
AERATED CELL
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 17.18 1000 m3
POPULATION SERVED : 14636

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SCUGOG RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	11.319	199.0	12.0		135.828	139.0	10.8		122.245	5.8	0.9	9.848
FEB	10.819	138.0	19.0		205.561	103.0	17.0		183.923	5.1	1.5 *	16.445
MAR	21.594	45.0	21.8		470.749	51.0	15.0		323.910	3.7	0.9	19.651
APR	20.293	83.0	9.0		182.637	60.0	10.6		215.106	5.8	0.3	6.088
MAY	12.774	107.0	6.8		86.863	103.0	7.6		97.082	5.2	0.8	9.580
JUN	12.679	99.0	9.1		115.379	113.0	11.5		145.809	5.3	0.7	8.368
JUL	12.451	88.0	14.9		185.520	93.0	23.2		288.863	3.8	0.4	5.478
AUG	11.761	98.0	8.5		99.968	97.0	18.2		214.050	8.3	0.7	7.997
SEP	11.724	116.0	4.4		51.586	77.0	4.1		48.068	9.9	0.8	9.731
OCT	11.647	101.0	2.7		31.447	65.0	3.3		38.435	12.1	0.6	7.221
NOV	13.715	88.0	8.2		112.463	109.0	0.9		12.344	8.3	0.6	8.366
DEC	19.389	55.0	10.0		193.890	65.0	9.6		186.134	3.9	0.7	13.378
AVERAGE:	14.180	101.0	10.5		155.991	90.0	11.0		156.331	6.4	0.7	10.179
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE			88/06/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : METRO TORONTO
PLANT : HIGHLAND CREEK WPCP (SCARBOROUGH)
WORKS NUMBER : 120000373
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 218.20 1000 m3
POPULATION SERVED : 290000

REGION : CENTRAL
DISTRICT : METRO TORONTO EAST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	162.629	146.0	10.1		1642.553	177.0	22.5		3659.152	4.6	0.8	125.224
FEB	157.071	157.0	9.9		1555.003	197.0	16.1		2528.843	4.9	0.8	124.086
MAR	165.270	149.0	11.6		1917.132	185.0	15.5		2561.685	4.7	0.5	89.246
APR	180.223	158.0	12.4		2234.765	201.0	18.4		3316.103	4.3	0.8	135.167
MAY	178.403	170.0	7.6		1355.863	189.0	15.1		2693.885	4.7	1.0	181.971
JUN	196.200	186.0	9.0		1765.800	215.0	16.0		3139.200	5.0	0.8	149.112
JUL	208.500	138.0	6.5		1355.250	208.0	16.6		3461.100	4.5	0.8	168.885
AUG	181.300	154.0	6.3		1142.190	202.0	25.1		4550.630	4.4	0.8	143.227
SEP	161.100	148.0	7.7		1240.470	209.0	18.6		2996.460	4.8	0.6	103.104
OCT	149.900	157.0	9.1		1364.090	196.0	17.4		2608.260	4.6	0.9	136.409
NOV	151.200	178.0	14.4		2177.280	212.0	23.2		3507.840	4.8	0.9	137.592
DEC	148.600	161.0	12.8		1902.080	219.0	23.4		3477.240	4.7	0.8	124.824
AVERAGE:	170.033	158.0	9.8		1637.706	201.0	19.0		3208.367	4.7	0.8	134.904
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		230	230			364	348			364	345	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : METRO TORONTO
PLANT : HUMBER WPCP (ETOBICOKE)
WORKS NUMBER : 120000382
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 409.14 1000 m3
POPULATION SERVED : 660000

REGION : CENTRAL
DISTRICT : METRO TORONTO WEST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	374.800	205.0	12.3		4610.040	359.0	23.5		8807.800	8.8	1.6 *	607.176
FEB	364.100	267.0	11.2		4077.920	350.0	26.2		9539.420	9.2	1.3 *	480.612
MAR	400.700	232.0	11.0		4407.700	304.0	19.5		7813.650	8.8	0.9	372.651
APR	441.700	213.0	8.0		3533.600	320.0	15.0		6625.500	8.1	0.7	313.607
MAY	385.300	222.0	12.1		4662.130	293.0	30.6		11790.180	8.2	1.1 *	404.565
JUN	408.300	204.0	4.3		1755.690	390.0	15.2		6206.160	9.5	0.7	269.478
JUL	420.900	197.0	7.2		3030.480	329.0	21.4		9007.260	8.0	0.8	319.884
AUG	412.387	216.0	5.4		2226.890	279.0	13.4		5525.986	7.6	0.8	346.405
SEP	417.500	209.0	5.8		2421.500	313.0	14.6		6095.500	12.2	0.9	375.750
OCT	401.300	200.0	10.1		4053.130	328.0	18.3		7343.790	7.8	0.8	317.027
NOV	391.100	217.0	12.6		4927.860	336.0	27.7		10833.470	9.5	1.2 *	461.498
DEC	414.400	176.0	7.5		3108.000	345.0	15.2		6298.880	7.6	0.6	236.208
AVERAGE:	402.707	213.0	9.0		3567.912	329.0	20.1		7990.633	8.8	0.9	375.405
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											4	
NO OF SAMPLES		241	247			365	326			363	358	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
REMEDIAL MEASURES BEING EVALUATED			
PROCESS AND/OR EQUIPMENT UPGRADING - REVERTING TO OTHER PROCESS			
UPGRADING SLUDGE QUALITY			
FACILITY EXPANSION AND/OR UPGRADING - UNDER CONSTRUCTION	88/07/04	90/07/04	
CONDUCTING TREATABILITY STUDIES	87/02/01	88/02/01	
IMPLEMENTING A PLANT PERFORMANCE MONITORING PROGRAM	88/07/04		88/08/01

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : METRO TORONTO
PLANT : MAIN WPCP (TORONTO)
WORKS NUMBER : 120000391
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 818.28 1000 m3
POPULATION SERVED : 1200000

REGION : CENTRAL
DISTRICT : METRO TORONTO EAST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	683.000	161.0	7.7		5259.100	245.0	16.7		11406.100	6.1	0.5	348.330
FEB	764.000	159.0	13.9		10619.600	202.0	33.5		25594.000	5.7	0.9	679.960
MAR	773.687	145.0	10.7		8278.451	209.0	21.7		16789.008	6.3	0.6	471.949
APR	805.696	135.0	7.3		5881.581	214.0	15.1		12166.010	5.6	0.4	354.506
MAY	607.451	150.0	11.3		6864.196	190.0	29.5		17919.805	5.6	0.7	449.514
JUN	853.000	187.0	17.6		15012.800	275.0	23.1		19704.300	6.5	0.7	562.980
JUL	893.000	153.0	7.5		6697.500	277.0	14.0		12502.000	5.4	0.4	357.200
AUG	881.616	160.0	7.7		6788.443	241.0	17.6		15516.442	5.1	0.5	396.727
SEP	846.270	195.0	16.0		13540.320	296.0	42.2		35712.594	6.6	1.0	880.121
OCT	714.100	247.0	15.0		10711.500	262.0	20.3		14496.230	6.1	0.7	485.588
NOV	711.100	201.0	8.2		5831.020	306.0	26.6		18915.260	6.0	0.7	490.659
DEC	674.000	203.0	14.2		9570.800	229.0	15.9		10716.600	5.3	0.6	377.440
AVERAGE:	767.243	175.0	11.4		8754.609	246.0	23.0		17619.862	5.9	0.6	487.914
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		232	224			361	349			347	348	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MAINTENANCE AND/OR OPERATION UPGRADING-START-UP DIFFICULTIES BEING REMEDIED			
FACILITY EXPANSION AND/OR UPGRADING-UNDER CONSTRUCTION			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : METRO TORONTO
PLANT : NORTH TORONTO WPCP (EAST YORK)
WORKS NUMBER : 120000364
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 45.46 1000 m3
POPULATION SERVED : 55000

REGION : CENTRAL
DISTRICT : METRO TORONTO EAST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	36.500	256.0	18.1		660.650	158.0	13.5		492.750	5.1	0.8	30.660
FEB	36.800	176.0	20.3		747.040	157.0	16.7		614.560	4.8	0.8	30.176
MAR	38.000	217.0	25.1		953.800	159.0	19.6		744.800	4.8	0.9	33.820
APR	37.400	182.0	19.4		725.560	135.0	8.0		299.200	4.2	0.6	22.440
MAY	34.000	206.0	15.6		530.400	158.0	4.7		159.800	4.9	0.8	25.840
JUN	36.300	153.0	13.6		493.680	138.0	5.1		185.130	4.9	0.8	29.403
JUL	36.700	215.0	12.3		451.410	102.0	4.1		150.470	3.8	0.7	25.690
AUG	36.300	197.0	14.6		529.980	130.0	6.6		239.580	4.3	0.7	26.136
SEP	37.900	229.0	15.4		583.660	150.0	5.9		223.610	4.5	0.8	31.457
OCT	37.800	251.0	21.4		808.920	153.0	6.0		226.800	4.7	1.0	37.044
NOV	37.300	280.0	23.4		872.820	135.0	6.7		249.910	5.0	0.7	24.245
DEC	34.800	244.0	18.5		643.800	141.0	14.3		497.640	4.3	0.7	25.404
AVERAGE:	36.650	217.0	18.1		666.810	143.0	9.3		340.354	4.6	0.8	28.526
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		195	194			364	363			363	361	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MIDLAND
PLANT : MIDLAND WPCP
WORKS NUMBER : 110000463
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 13.63 1000 m3
POPULATION SERVED : 12000

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MIDLAND BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	10.333	74.0	7.9		81.631	161.0	5.5		56.831	7.9	0.7	6.923
FEB	10.672	98.0	7.9		84.309	124.0	5.6		59.763	5.0	0.5	5.443
MAR	13.064	61.0	5.9		77.078	133.0	10.1		131.946	5.0	0.5	6.271
APR	12.479	46.0	6.1		76.122	130.0	8.9		111.063	3.2	0.3	4.243
MAY	10.397	63.0	10.2		106.049	126.0	10.7		111.248	6.4	0.6	6.654
JUN	11.122	98.0	7.7		85.639	155.0	6.4		71.181	5.7	0.5	5.227
JUL	10.679	70.0	3.2		34.173	162.0	5.2		55.531	2.1	0.6	6.087
AUG	10.471	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	10.393	67.0	4.7		48.847	226.0	4.4		45.729	8.2	0.6	6.444
OCT	11.173	100.0	3.8		42.457	159.0	5.8		64.803	5.4	1.2 *	13.072
NOV	11.756	82.0	5.9		69.360	161.0	8.3		97.575	4.7	0.8	9.052
DEC	11.263	52.0	4.2		47.305	101.0	4.5		50.684	4.9	0.6	6.645
AVERAGE:	11.150	74.0	6.1		68.452	149.0	6.9		77.850	5.3	0.6	6.915
OBSERVATIONS:12		11	11			11	11			11	11	
EXCEEDANCES											1	
NO OF SAMPLES		21	20			21	21			21	20	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MILLBROOK
PLANT : MILLBROOK WPCP
WORKS NUMBER : 110002238
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.13 1000 m3
POPULATION SERVED : 975

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BAXTER CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.865	40.0	1.9		1.643	27.0	6.9		5.969	3.4	0.1	0.069
FEB	0.780	129.0	7.8		6.084	71.0	4.3		3.354	2.8	0.2	0.164
MAR	1.106	91.0	6.0		6.636	76.0	8.0		8.848	5.1	0.4	0.420
APR	1.262	41.0	4.5		5.679	41.0	7.4		9.339	3.8	0.3	0.379
MAY	0.848	31.0	ND		ND	48.0	5.9		5.003	5.3	ND	ND
JUN	0.762	90.0	3.7		2.819	65.0	3.0		2.286	5.4	0.3	0.191
JUL	0.728	86.0	1.9		1.383	56.0	3.4		2.475	3.4	0.4	0.284
AUG	0.730	67.0	1.4		1.022	46.0	2.6		1.898	5.0	0.3	0.182
SEP	0.820	90.0	3.7		3.034	69.0	3.6		2.952	1.9	0.2	0.189
OCT	0.934	67.0	3.8		3.549	ND	7.8		7.285	4.4	0.3	0.262
NOV	0.972	110.0	6.5		6.318	138.0	5.9		5.735	5.8	0.1	0.078
DEC	1.192	107.0	7.1		8.463	86.0	6.4		7.629	3.5	0.6	0.715
AVERAGE:	0.917	79.0	4.4		4.239	66.0	5.4		5.231	4.1	0.3	0.267
OBSERVATIONS:	12	12	11			11	12			12	11	
EXCEEDANCES												
NO OF SAMPLES		14	17			13	13			16	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MILTON
PLANT : MILTON WPCP
WORKS NUMBER : 120001014
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 12.91 1000 m3
POPULATION SERVED : 23203

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OAKVILLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	9.700	150.0	3.6		34.920	218.0	1.2		11.640	8.7	0.2	1.940
FEB	9.300	124.0	3.6		33.480	139.0	1.7		15.810	10.3	1.0	9.021
MAR	9.670	166.0	3.7		35.779	156.0	2.4		23.208	5.3	0.3	2.514
APR	12.000	130.0	4.5		54.000	150.0	3.2		38.400	4.8	0.2	2.160
MAY	9.800	145.0	5.6		54.880	140.0	3.5		34.300	8.6	0.5	4.900
JUN	9.561	143.0	4.3		41.112	120.0	2.4		22.946	9.4	0.3	2.868
JUL	10.800	119.0	2.2		23.760	77.0	2.7		29.160	4.9	0.4	4.644
AUG	9.600	248.0	1.9		18.240	93.0	2.6		24.960	10.4	0.3	2.400
SEP	10.000	195.0	3.7		37.000	163.0	3.2		32.000	8.6	0.3	2.600
OCT	9.500	121.0	2.4		22.800	90.0	1.6		15.200	8.1	0.1	0.760
NOV	10.800	199.0	2.3		24.840	166.0	1.0		10.800	7.8	0.1	1.188
DEC	11.800	133.0	4.5		53.100	118.0	1.0		11.800	5.0	0.1	1.180
AVERAGE:	10.211	156.0	3.5		36.159	136.0	2.2		22.519	7.7	0.3	3.015
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		32	33			32	33			31	31	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MISSISSAUGA
PLANT : CLARKSON WPCP SOUTH-PEEL SYSTEM
WORKS NUMBER : 110001328
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 109.10 1000 m3
POPULATION SERVED : 120000

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	70.930	129.0	13.0		922.090	157.0	10.0		709.300	7.7	0.8	53.907
FEB	64.160	139.0	14.0		898.240	126.0	10.0		641.600	7.7	0.7	46.195
MAR	71.820	145.0	12.0		861.840	166.0	8.0		574.560	6.3	0.8	60.329
APR	81.290	140.0	14.0		1138.060	155.0	9.0		731.610	7.1	1.0	78.038
MAY	72.630	207.0	14.0		1016.820	248.0	8.0		581.040	9.8	1.0	69.725
JUN	77.850	118.0	14.0		1089.900	175.0	11.0		856.350	7.0	1.0	79.407
JUL	81.590	127.0	13.0		1060.670	137.0	11.0		897.490	7.7	0.8	67.720
AUG	74.210	142.0	14.0		1038.940	121.0	10.0		742.100	8.5	0.9	69.757
SEP	74.369	173.0	11.0		818.059	168.0	8.0		594.952	7.4	0.9	63.214
OCT	70.623	246.0	17.7		1250.027	271.0	11.3		798.040	9.4	1.0	68.504
NOV	74.537	187.0	15.6		1162.777	228.0	10.2		760.277	10.1	0.9	69.319
DEC	82.268	232.0	18.7		1538.412	262.0	13.2		1085.938	11.6	1.0	81.445
AVERAGE:	74.690	165.0	14.2		1066.320	184.0	10.0		747.771	8.4	0.9	67.297
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		72	213			72	213			72	179	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: MISSISSAUGA	REGION	: CENTRAL
PLANT	: LAKEVIEW WPCP SOUTH-PEEL SYSTEM	DISTRICT	: HALTON PEEL
WORKS NUMBER	: 110001284	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: LAKE ONTARIO
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ONTARIO
DESIGN CAPACITY	: 284.12 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 370000		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	244.997	249.0	15.2		3723.954	199.0	12.0		2939.964	5.9	0.5	115.149
FEB	239.054	303.0	16.5		3944.391	292.0	13.4		3203.324	8.8	0.6	143.432
MAR	258.942	237.0	19.9		5152.946	197.0	12.6		3262.669	7.4	0.6	155.365
APR	285.727	203.0	12.4		3543.015	178.0	10.8		3085.852	4.9	0.4	125.720
MAY	243.939	262.0	20.2		4927.568	170.0	11.8		2878.480	5.2	0.5	129.288
JUN	255.543	251.0	18.5		4727.546	150.0	24.1		6158.586	6.0	1.0	265.765
JUL	259.055	269.0	21.6		5595.588	223.0	29.1		7538.501	6.6	0.7	191.701
AUG	255.868	213.0	23.6		6038.485	199.0	9.6		2456.333	6.7	1.3 *	337.746
SEP	260.423	224.0	19.8		5156.375	192.0	11.7		3046.949	7.8	0.9	223.964
OCT	248.942	266.0	14.5		3609.659	223.0	13.9		3460.294	7.9	1.1 *	276.326
NOV	257.207	242.0	19.4		4989.816	231.0	10.6		2726.394	8.2	0.8	200.621
DEC	273.447	273.0	11.4		3117.296	206.0	11.9		3254.019	6.8	0.4	101.175
AVERAGE:	256.929	249.0	17.8		4543.887	205.0	14.3		3667.614	6.9	0.7	188.854
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		339	316			264	298			223	304	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE			
SEWER REPAIR UNDERWAY			
MONITORING PROCEDURES AND/OR EQUIPMENT BEING UPGRADED			
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW			
PROCESS CONTROL IMPROVEMENTS UNDERWAY			
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED			
REMEDIAL MEASURES BEING EVALUATED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MUSKOKA LAKES
PLANT : BALA WPCP
WORKS NUMBER : 120000792
TREATMENT : COMMUNAL SEPTIC TANK
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT FILTRATION
DESIGN CAPACITY : 0.09 1000 m3
POPULATION SERVED : 113

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LONG LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.028	101.0	8.4	92	0.235	76.0	17.5	77	0.490	3.4	0.6	0.017
FEB	0.053	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	0.052	17.0	8.6	49	0.447	87.0	14.0	84	0.728	0.5	0.4	0.021
APR	0.028	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	0.030	60.0	22.0	63	0.660	77.0	40.6	47	1.218	1.5	1.0	0.028
JUN	0.041	69.0	0.2	100	0.008	55.0	68.8	0	2.821	3.2	0.2	0.010
JUL	0.046	101.0	8.4	92	0.386	76.0	7.5	90	0.345	3.4	0.6	0.027
AUG	0.040	96.0	7.3	92	0.292	43.0	24.0	44	0.960	3.9	2.0 *	0.080
SEP	0.035	122.0	1.0	99	0.035	75.0	12.2	84	0.427	5.4	2.7 *	0.095
OCT	0.036	25.0	2.3	91	0.083	26.0	8.1	69	0.292	0.7	0.4	0.015
NOV	0.480	21.0	3.1	85	1.488	22.0	69.7	0	33.456	1.3	0.2	0.086
DEC	0.700	22.0	1.3	94	0.910	23.0	60.2	0	42.140	1.4	0.9	0.609
AVERAGE:	0.131	63.0	6.3	86	0.454	56.0	32.3	71	8.288	2.5	0.9	0.099
OBSERVATIONS:	12	10	10			10	10			10	10	
EXCEEDANCES											2	
NO OF SAMPLES		21	24			19	15			21	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/06/01	88/06/30	
FUNDING UNDER REVIEW	87/06/01	88/06/30	
ENVIRONMENTAL ASSESSMENT PROCESS	87/10/01		90/12/31
PROGRAM UNDER REVIEW	87/06/01	88/06/30	
INPLANT SAMPLING PROGRAM IS BEING MODIFIED	87/10/01		
REMEDIAL MEASURES BEING EVALUATED	87/10/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MUSKOKA LAKES
PLANT : PORT CARLING WPCP
WORKS NUMBER : 110002229
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 700

REGION : CENTRAL
DISTRICT : MUSKOKA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : INDIAN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.163	121.0	5.8		0.945	99.0	11.4		1.858	7.4	0.7	0.106
FEB	0.195	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	0.181	56.0	1.8		0.326	61.0	9.1		1.647	3.6	0.5	0.085
APR	0.192	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.158	54.0	10.3		1.627	88.0	3.2		0.506	6.5	0.3	0.051
JUN	0.155	178.0	1.8		0.279	166.0	5.6		0.868	9.1	0.7	0.105
JUL	0.269	49.0	1.2		0.323	35.0	4.0		1.076	2.6	0.9	0.229
AUG	0.258	164.0	2.1		0.542	52.0	1.6		0.413	10.2	0.2	0.046
SEP	0.178	101.0	1.6		0.285	55.0	6.4		1.139	5.7	0.2	0.032
OCT	0.106	88.0	2.1		0.223	52.0	8.9		0.943	2.4	0.4	0.039
NOV	0.105	26.0	8.3		0.872	31.0	2.7		0.284	2.2	0.1	0.009
DEC	0.166	64.0	0.4		0.066	127.0	0.3		0.050	4.8	0.0	0.002
AVERAGE:	0.177	90.0	3.5		0.549	77.0	5.3		0.878	5.5	0.4	0.070
OBSERVATIONS:12		10	10			10	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		10	10			10	10			10	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NEWCASTLE
PLANT : GRAHAM CREEK WPCP (NEWCASTLE)
WORKS NUMBER : 110001569
TREATMENT : EXTENDED AERATION

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 1866

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.154	75.0	4.8		5.539	92.0	6.8		7.847	4.6	1.6	1.846
FEB	0.980	121.0	17.2		16.856	ND	ND		ND	ND	ND	ND
MAR	1.372	68.0	8.5		11.662	65.0	11.2		15.366	4.9	1.3	1.715
APR	1.731	71.0	2.8		4.847	96.0	10.5		18.175	3.1	1.9	3.324
MAY	0.895	211.0	13.1		11.724	150.0	8.4		7.518	ND	ND	ND
JUN	0.790	222.0	2.3		1.817	189.0	5.5		4.345	8.5	3.0	2.378
JUL	0.787	107.0	5.0		3.935	248.0	9.0		7.083	5.8	2.8	2.196
AUG	0.806	181.0	4.5		3.627	196.0	5.3		4.272	15.9	3.9	3.176
SEP	1.088	128.0	0.6		0.653	83.0	6.7		7.290	7.8	3.2	3.503
OCT	1.149	22.0	3.0		3.447	75.0	7.7		8.847	16.7	2.6	2.953
NOV	1.449	58.0	11.2		16.229	76.0	11.8		17.098	4.6	1.1	1.608
DEC	1.383	140.0	5.8		8.021	145.0	10.5		14.521	7.5	1.1	1.466
AVERAGE:	1.132	117.0	6.6		7.363	129.0	8.5		10.215	7.9	2.2	2.417
OBSERVATIONS:	12	12	12			11	11			10	10	
EXCEEDANCES												
NO OF SAMPLES		12	12			11	175			10	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NEWCASTLE
PLANT : PORT DARLINGTON WPCP
WORKS NUMBER : 120003076
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 12831

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	7.952	54.0	23.7		188.462	89.0	8.4		66.797	5.4	1.0	7.713
FEB	6.640	122.0	19.4		128.816	110.0	10.8		71.712	6.2	0.7	4.316
MAR	9.013	72.0	21.0		189.273	67.0	9.9		89.229	3.4	0.8	7.481
APR	6.818	237.0	23.1		157.496	650.0	13.2		89.998	5.6	0.8	5.523
MAY	6.032	139.0	20.9		126.069	127.0	12.7		76.606	5.8	0.7	4.283
JUN	5.052	277.0	3.4		17.177	128.0	10.1		51.025	6.0	0.6	2.779
JUL	6.338	168.0	5.3		33.591	133.0	10.3		65.281	6.5	0.7	4.500
AUG	5.634	147.0	12.1		68.171	119.0	10.3		58.030	7.9	0.7	4.113
SEP	7.702	133.0	7.2		55.454	173.0	17.1		131.704	11.9	1.9 *	14.942
OCT	7.468	33.0	12.0		89.616	53.0	13.2		98.578	6.8	1.4 *	10.455
NOV	9.706	53.0	26.9		261.091	63.0	13.2		128.119	3.2	1.0	9.221
DEC	11.222	82.0	9.3		104.365	71.0	16.5		185.163	3.1	0.5	6.060
AVERAGE:	7.465	126.0	15.4		118.298	149.0	12.1		92.687	6.0	0.9	6.782
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		12	12			12	299			85	284	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORWOOD
PLANT : NORWOOD WPCP
WORKS NUMBER : 110001499
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.72 1000 m3
POPULATION SERVED : 1117

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OUSE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.447	76.0	6.3		2.816	88.0	6.6		2.950	2.6	0.6	0.286
FEB	0.447	19.0	17.8		7.957	47.0	23.0		10.281	1.8	0.9	0.407
MAR	0.579	55.0	24.0		13.896	26.0	17.8		10.306	2.5	0.9	0.521
APR	0.879	56.0	9.7		8.526	21.0	7.5		6.593	2.3	0.4	0.334
MAY	0.547	65.0	3.0		1.641	67.0	4.2		2.297	4.5	0.9	0.492
JUN	0.469	29.0	2.0		0.938	37.0	3.6		1.688	3.4	0.3	0.131
JUL	0.417	ND	2.0		0.834	65.0	3.9		1.626	4.7	0.5	0.188
AUG	0.387	52.0	6.2		2.399	45.0	3.7		1.432	3.3	0.3	0.112
SEP	0.392	48.0	4.3		1.686	58.0	3.1		1.215	3.5	0.8	0.318
OCT	0.449	65.0	8.7		3.906	44.0	3.5		1.572	6.1	1.0	0.449
NOV	0.433	26.0	9.2		3.984	22.0	5.2		2.252	2.0	0.5	0.212
DEC	0.515	103.0	8.3		4.275	100.0	6.1		3.141	7.2	0.5	0.232
AVERAGE:	0.497	54.0	8.5		4.405	52.0	7.4		3.779	3.7	0.6	0.307
OBSERVATIONS:	12	11	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		11	13			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OAKVILLE
PLANT : SOUTH EAST WPCP
WORKS NUMBER : 120000998
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 22.73 1000 m3
POPULATION SERVED : 21900

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	14.400	165.0	4.9		70.560	146.0	10.7		154.080	5.6	0.6	8.352
FEB	12.914	144.0	3.9		50.365	102.0	6.8		87.815	6.7	0.2	2.841
MAR	14.100	182.0	1.0		14.100	373.0	5.7		80.370	5.9	0.2	3.243
APR	16.558	89.0	ND		ND	150.0	7.7		127.497	5.8	0.2	2.815
MAY	12.606	151.0	5.7		71.854	103.0	13.9		175.223	6.7	0.9	11.724
JUN	12.544	198.0	1.4		17.562	250.0	3.6		45.158	11.1	0.8	10.035
JUL	14.929	159.0	1.7		25.379	76.0	5.2		77.631	5.1	1.0	15.377
AUG	13.322	167.0	1.1		14.654	267.0	5.0		66.610	8.6	0.5	6.261
SEP	12.429	89.0	6.2		77.060	126.0	5.6		69.602	4.8	0.5	5.842
OCT	12.000	153.0	2.3		27.600	151.0	4.7		56.400	6.5	0.5	5.400
NOV	12.884	220.0	2.1		27.056	207.0	3.8		48.959	5.3	0.2	2.061
DEC	ND	ND	2.0		ND	ND	5.6		ND	ND	0.5	ND
AVERAGE:	13.517	156.0	2.9		39.619	177.0	6.5		89.940	6.6	0.5	6.723
OBSERVATIONS:	11	11	11			11	12			11	12	
EXCEEDANCES												
NO OF SAMPLES		28	28			29	31			30	31	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OAKVILLE
PLANT : SOUTH WEST WPCP
WORKS NUMBER : 120001005
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 47.73 1000 m3
POPULATION SERVED : 58200

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	36.400	135.0	5.9		214.760	129.0	10.0		364.000	5.4	0.4	14.560
FEB	34.100	253.0	5.0		170.500	267.0	0.8		27.280	11.5	0.6	19.437
MAR	39.300	228.0	8.0		314.400	169.0	12.3		483.390	8.6	0.5	21.222
APR	50.000	231.0	10.8		540.000	275.0	14.4		720.000	12.4	0.5	27.000
MAY	32.300	213.0	12.1		390.830	129.0	12.6		406.980	12.7	1.6 *	51.680
JUN	32.800	200.0	12.0		393.600	152.0	12.4		406.720	12.7	1.0	31.816
JUL	38.500	145.0	12.6		485.100	92.0	8.0		308.000	9.1	1.0	38.500
AUG	35.300	192.0	15.0		529.500	198.0	9.3		328.290	14.2	0.7	24.710
SEP	35.400	222.0	15.2		538.080	242.0	7.8		276.120	7.8	0.9	31.860
OCT	32.900	445.0	14.4		473.760	552.0	8.8		289.520	7.4	0.5	16.450
NOV	36.200	218.0	14.3		517.660	244.0	5.4		195.480	6.6	0.5	17.014
DEC	39.300	194.0	11.5		451.950	265.0	13.8		542.340	5.4	0.5	18.078
AVERAGE:	36.875	223.0	11.4		418.345	226.0	9.6		362.343	9.5	0.7	26.027
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		45	39			45	40			45	47	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OMEMEE
PLANT : OMEMEE LAGOON
WORKS NUMBER : 110001630
TREATMENT : LAGOON AND SPRAY
NO DISCHARGE

DESIGN CAPACITY : 0.61 1000 m3
POPULATION SERVED : 653

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.260	144.0	ND		ND	154.0	ND		ND	6.9	ND	ND
FEB	0.202	241.0	ND		ND	148.0	ND		ND	7.5	ND	ND
MAR	0.472	483.0	ND		ND	378.0	ND		ND	5.5	ND	ND
APR	0.465	109.0	ND		ND	61.0	ND		ND	5.7	ND	ND
MAY	0.219	192.0	ND		ND	132.0	ND		ND	8.6	ND	ND
JUN	0.204	131.0	ND		ND	143.0	ND		ND	8.9	ND	ND
JUL	0.197	263.0	ND		ND	136.0	ND		ND	9.2	ND	ND
AUG	0.176	135.0	ND		ND	168.0	ND		ND	9.9	ND	ND
SEP	0.181	624.0	ND		ND	472.0	ND		ND	17.6	ND	ND
OCT	0.232	307.0	ND		ND	278.0	ND		ND	14.7	ND	ND
NOV	0.245	107.0	ND		ND	109.0	ND		ND	4.0	ND	ND
DEC	0.366	107.0	ND		ND	140.0	ND		ND	4.8	ND	ND
AVERAGE:	0.268	237.0	0.0		0.000	193.0	0.0		0.000	8.6	0.0	0.000
OBSERVATIONS:12		12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		12	0			12	0			12	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ORILLIA
PLANT : ORILLIA WPCP
WORKS NUMBER : 120000569
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 24000

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	15.744	88.0	16.5		259.776	168.0	6.3		99.187	3.8	0.2	2.834
FEB	14.733	236.0	6.2		91.345	175.0	7.6		111.971	4.0	0.2	2.652
MAR	26.321	66.0	9.6		252.682	117.0	9.2		242.153	2.8	0.2	5.264
APR	25.819	85.0	5.4		139.423	138.0	9.2		237.535	2.8	0.2	4.389
MAY	16.589	166.0	16.9		280.354	193.0	7.6		126.076	3.0	0.2	2.986
JUN	16.420	156.0	4.1		67.322	168.0	6.4		105.088	3.4	0.2	2.956
JUL	16.585	149.0	5.6		92.876	163.0	10.9		180.777	3.8	0.2	3.317
AUG	15.273	206.0	11.1		169.530	197.0	12.8		195.494	5.2	0.3	4.887
SEP	14.712	166.0	13.2		194.198	186.0	9.2		135.350	4.7	0.3	4.119
OCT	15.363	162.0	1.0		15.363	173.0	10.7		164.384	4.2	0.2	3.226
NOV	19.504	135.0	8.7		169.685	151.0	10.4		202.842	3.8	0.2	2.926
DEC	22.330	85.0	7.5		167.475	166.0	7.3		163.009	4.3	0.3	7.146
AVERAGE:	18.283	142.0	8.8		158.336	166.0	9.0		163.655	3.8	0.2	3.892
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		28	41			177	170			102	96	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OSHAWA
PLANT : HARMONY CR WPCP NO 2
WORKS NUMBER : 120001657
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 34.09 1000 m3
POPULATION SERVED : 51469

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	27.269	126.0	ND		ND	140.0	ND		ND	6.4	ND	ND
FEB	24.327	196.0	ND		ND	153.0	ND		ND	7.1	ND	ND
MAR	26.201	154.0	ND		ND	194.0	ND		ND	6.1	ND	ND
APR	33.612	265.0	ND		ND	852.0	ND		ND	5.5	ND	ND
MAY	24.917	206.0	ND		ND	155.0	ND		ND	8.0	ND	ND
JUN	28.952	157.0	ND		ND	168.0	ND		ND	6.5	ND	ND
JUL	24.947	219.0	ND		ND	140.0	ND		ND	8.0	ND	ND
AUG	21.085	153.0	ND		ND	188.0	ND		ND	8.0	ND	ND
SEP	24.678	143.0	ND		ND	110.0	ND		ND	6.8	ND	ND
OCT	24.336	167.0	ND		ND	64.0	ND		ND	7.0	ND	ND
NOV	29.421	88.0	ND		ND	96.0	ND		ND	5.3	ND	ND
DEC	34.222	144.0	ND		ND	125.0	ND		ND	5.5	ND	ND
AVERAGE:	26.997	168.0	0.0		0.000	199.0	0.0		0.000	6.7	0.0	0.000
OBSERVATIONS:	12	12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		12	0			12	0			88	0	

COMPLIANCE :

BOD - NO DATA
SS - NO DATA
TP - NO DATA

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: OSHAWA	REGION	: CENTRAL
PLANT	: HARMONY CREEK 1&2 COMBINED EFFLUENT	DISTRICT	: YORK DURHAM
WORKS NUMBER	: 120003254	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE TRICKLING FILTER PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: L ONT.(COMBINED EFF.1&2)
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ONTARIO
DESIGN CAPACITY	: 0.00 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 0		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	56.397	ND	31.3		1765.226	ND	17.9		1009.506	ND	0.9	47.937
FEB	53.157	ND	17.5		930.247	ND	20.4		1084.403	ND	1.0	54.220
MAR	61.063	ND	17.0		1038.071	ND	29.0		1770.827	ND	0.9	56.178
APR	67.810	ND	14.6		990.026	ND	19.5		1322.295	ND	1.0	66.454
MAY	52.160	ND	16.8		876.288	ND	20.4		1064.064	ND	0.9	45.901
JUN	52.382	ND	11.2		586.678	ND	23.8		1246.692	ND	0.9	45.572
JUL	46.513	ND	16.0		744.208	ND	16.5		767.464	ND	0.7	31.629
AUG	42.507	ND	11.9		505.833	ND	16.2		688.613	ND	0.8	33.581
SEP	49.660	ND	13.3		660.478	ND	18.1		898.846	ND	0.9	45.191
OCT	46.377	ND	14.0		649.278	ND	18.4		853.337	ND	0.9	41.739
NOV	55.160	ND	13.5		744.660	ND	16.5		910.140	ND	0.7	40.267
DEC	62.540	ND	16.2		1013.148	ND	20.1		1257.054	ND	0.8	51.908
AVERAGE:	53.810	0.0	16.1		875.345	0.0	19.7		1072.770	0.0	0.9	46.715
OBSERVATIONS:	12	0	12			0	12			0	12	
EXCEEDANCES												
NO OF SAMPLES		0	36			0	637			0	552	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: OSHAWA	REGION	: CENTRAL
PLANT	: HARMONY CR WPCP NO 1	DISTRICT	: YORK DURHAM
WORKS NUMBER	: 120000774	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: TRICKLING FILTER PHOSPHORUS REMOVAL CONTINUOUS	WATERCOURSE	:
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: LAKE ONTARIO
DESIGN CAPACITY	: 34.09 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 102938		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	29.128	74.0	ND		ND	98.0	ND		ND	5.6	ND	ND
FEB	28.830	113.0	ND		ND	174.0	ND		ND	6.3	ND	ND
MAR	32.412	125.0	ND		ND	192.0	ND		ND	6.0	ND	ND
APR	34.201	91.0	ND		ND	66.0	ND		ND	6.1	ND	ND
MAY	27.243	177.0	ND		ND	136.0	ND		ND	7.2	ND	ND
JUN	25.103	287.0	ND		ND	223.0	ND		ND	4.0	ND	ND
JUL	21.566	139.0	ND		ND	273.0	ND		ND	5.1	ND	ND
AUG	21.422	328.0	ND		ND	237.0	ND		ND	5.3	ND	ND
SEP	24.982	101.0	ND		ND	90.0	ND		ND	5.8	ND	ND
OCT	22.041	105.0	ND		ND	172.0	ND		ND	5.5	ND	ND
NOV	25.738	85.0	ND		ND	122.0	ND		ND	4.0	ND	ND
DEC	28.319	183.0	ND		ND	140.0	ND		ND	5.8	ND	ND
AVERAGE:	26.749	151.0	0.0		0.000	160.0	0.0		0.000	5.6	0.0	0.000
OBSERVATIONS:12		12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		12	0			12	0			12	0	

COMPLIANCE :	CRITERIA :
BOD - NO DATA	BOD - 25 mg/l
SS - NO DATA	SS - 25 mg/l
TP - NO DATA	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PENETANGUISHENE
PLANT : FOX ST.WPCP IN OP.1987
WORKS NUMBER : 120001960
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.50 1000 m3
POPULATION SERVED : 1000

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PENETANGUISHENE HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.846	76.0	2.0		1.692	120.0	7.1		6.007	4.3	0.3	0.288
FEB	0.863	62.0	2.7		2.330	99.0	8.3		7.163	3.8	0.3	0.293
MAR	1.115	104.0	9.2		10.258	135.0	7.7		8.585	4.7	0.4	0.390
APR	0.997	61.0	1.9		1.894	121.0	7.7		7.677	3.5	0.2	0.239
MAY	0.852	81.0	6.1		5.197	153.0	14.6		12.439	5.0	0.4	0.341
JUN	0.936	101.0	3.4		3.182	163.0	13.2		12.355	5.4	0.4	0.365
JUL	0.971	181.0	2.2		2.136	139.0	9.1		8.836	5.3	0.3	0.311
AUG	0.897	73.0	1.5		1.346	130.0	9.4		8.432	4.4	0.8	0.673
SEP	0.838	129.0	3.0		2.514	185.0	6.4		5.363	12.0	0.8	0.662
OCT	0.900	131.0	3.4		3.060	102.0	12.8		11.520	6.0	0.9	0.819
NOV	1.009	111.0	2.3		2.321	144.0	9.5		9.585	13.6	0.5	0.515
DEC	1.033	81.0	3.0		3.099	156.0	4.8		4.958	10.1	0.4	0.424
AVERAGE:	0.938	99.0	3.4		3.252	137.0	9.2		8.577	6.5	0.5	0.443
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PENETANGUISHENE
PLANT : PENETANGUISHENE WPCP
WORKS NUMBER : 120000541
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 3.00 1000 m3
POPULATION SERVED : 4300

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PENETANG BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.654	182.0	14.1		37.421	195.0	3.0		7.962	2.8	0.3	0.796
FEB	2.654	117.0	5.9		15.659	119.0	2.0		5.308	4.4	0.5	1.194
MAR	3.880	44.0	8.0		31.040	60.0	7.9		30.652	2.0	0.4	1.591
APR	3.427	20.0	5.3		18.163	37.0	9.1		31.186	1.0	0.4	1.439
MAY	2.838	87.0	9.9		28.096	192.0	13.1		37.178	3.3	0.8	2.129
JUN	3.650	99.0	7.4		27.010	126.0	3.8		13.870	1.4	0.6	2.300
JUL	3.021	122.0	6.2		18.730	104.0	2.2		6.646	4.1	0.4	1.329
AUG	2.890	88.0	2.6		7.514	138.0	1.3		3.757	4.2	0.7	1.879
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	2.958	90.0	6.0		17.748	84.0	2.9		8.578	4.0	0.7	2.071
NOV	3.332	89.0	1.4		4.665	111.0	1.8		5.998	6.5	0.2	0.500
DEC	3.220	67.0	4.2		13.524	102.0	2.3		7.406	3.8	0.5	1.578
AVERAGE:	3.139	91.0	6.5		19.961	115.0	4.5		14.413	3.4	0.5	1.528
OBSERVATIONS:	11	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		11	21			11	21			11	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PERCY
PLANT : WARKWORTH LAGOON
WORKS NUMBER : 120001933
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MILL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 600

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.263	ND	ND			ND	ND			ND	ND	
FEB	0.229	ND	ND			ND	ND			ND	ND	
MAR	0.323	ND	ND			ND	ND			ND	ND	
APR	0.363	42.0	10.7			22.0	71.4			1.4	0.2	
MAY	0.246	ND	11.0			ND	72.0			ND	0.2	
JUN	0.216	ND	ND			ND	ND			ND	ND	
JUL	0.191	ND	ND			ND	ND			ND	ND	
AUG	0.191	ND	ND			ND	ND			ND	ND	
SEP	0.192	81.0	ND			71.0	ND			8.5	ND	
OCT	0.237	ND	ND			ND	ND			ND	ND	
NOV	0.235	ND	ND			ND	ND			ND	ND	
DEC	0.267	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.246	62.0	10.9		3.295	46.0	71.7 *		21.815	5.0	0.2	0.057
OBSERVATIONS:12		2	2			2	2			2	2	
EXCEEDANCES												
NO OF SAMPLES		2	4			2	4			2	4	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PETERBOROUGH
PLANT : PETERBOROUGH WPCP
WORKS NUMBER : 120000676
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 68.19 1000 m3
POPULATION SERVED : 61063

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTONABEE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	49.180	105.0	10.7		526.226	119.0	4.3		211.474	4.5	1.0	49.180
FEB	45.090	115.0	12.9		581.661	129.0	6.2		279.558	4.5	1.0	45.090
MAR	61.250	91.0	15.9		973.875	93.0	6.2		379.750	4.0	1.0	61.250
APR	71.280	83.0	13.6		969.408	112.0	7.0		498.960	3.6	0.9	64.152
MAY	50.480	103.0	12.3		620.904	109.0	7.0		353.360	4.5	1.0	50.480
JUN	46.240	110.0	5.3		245.072	131.0	6.0		277.440	4.4	1.1 *	50.864
JUL	45.750	86.0	5.6		256.200	122.0	5.0		228.750	4.3	1.4 *	64.050
AUG	45.460	97.0	4.2		190.932	119.0	6.0		272.760	4.6	1.5 *	68.190
SEP	45.420	97.0	7.0		317.940	115.0	5.0		227.100	4.7	1.0	45.420
OCT	44.550	122.0	8.4		374.220	145.0	11.0		490.050	4.6	0.8	35.640
NOV	48.930	99.0	11.7		572.481	117.0	5.0		244.650	4.9	0.9	44.037
DEC	55.820	101.0	11.3		630.766	107.0	6.0		334.920	4.3	0.9	50.238
AVERAGE:	50.788	101.0	9.9		521.640	118.0	6.2		316.564	4.4	1.0	52.383
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		39	39			39	39			219	219	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	87/08/01	87/08/31	87/09/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PICKERING
PLANT : DUFFIN CREEK WPCP (YORK-DURHAM)
WORKS NUMBER : 120001915
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 181.84 1000 m3
POPULATION SERVED : 64386

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	161.960	161.0	27.0		4372.920	247.0	11.0		1781.560	4.1	0.6	95.556
FEB	157.010	164.0	6.0		942.060	282.0	9.0		1413.090	5.3	0.6	87.926
MAR	185.350	156.0	20.0		3707.000	220.0	11.0		2038.850	7.0	0.5	88.968
APR	195.940	109.0	18.0		3526.920	214.0	14.0		2743.160	6.2	0.4	68.579
MAY	162.790	203.0	24.0		3906.960	232.0	27.0		4395.330	7.0	0.8	126.976
JUN	172.030	184.0	29.0		4988.870	273.0	8.7		1496.661	7.2	0.6	106.659
JUL	175.220	183.0	13.5		3241.570	330.0	14.7		2575.734	7.8	0.6	98.123
AUG	166.970	159.0	23.6		3940.492	358.0	18.3		3055.551	8.4	0.8	131.906
SEP	173.520	237.0	24.7		4285.944	281.0	11.4		1978.128	7.2	0.9	152.698
OCT	168.410	159.0	15.3		2576.673	211.0	10.5		1768.305	6.4	0.6	95.994
NOV	188.000	156.0	14.5		2726.000	155.0	8.6		1616.800	6.9	0.6	112.800
DEC	205.400	123.0	16.7		3430.180	159.0	16.5		3389.100	5.5	0.8	154.050
AVERAGE:	176.050	166.0	19.8		3470.466	247.0	13.4		2354.356	6.6	0.6	110.020
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		138	75			631	333			302	226	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT HOPE
PLANT : PORT HOPE WPCP
WORKS NUMBER : 120000079
TREATMENT : HIGH RATE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 10274

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	5.101	110.0	16.5		84.166	66.0	10.7		54.581	2.4	0.7	3.673
FEB	4.909	151.0	16.2		79.526	92.0	8.5		41.727	2.9	0.9	4.320
MAR	6.678	166.0	13.8		92.156	89.0	8.6		57.431	2.5	0.7	4.608
APR	8.278	155.0	14.8		122.514	58.0	4.5		37.251	2.0	0.6	5.050
MAY	4.805	149.0	12.6		60.543	61.0	5.3		25.466	2.7	0.6	2.691
JUN	5.442	116.0	5.4		29.387	103.0	4.2		22.856	2.5	0.5	2.612
JUL	4.451	188.0	4.6		20.475	77.0	2.7		12.018	2.1	0.9	3.917
AUG	3.428	186.0	6.6		22.625	89.0	3.0		10.284	1.7	0.7	2.537
SEP	4.278	139.0	7.7		32.941	90.0	4.0		17.112	2.7	0.8	3.251
OCT	4.327	211.0	7.3		31.587	106.0	10.2		44.135	4.6	0.9	4.024
NOV	5.764	210.0	13.2		76.085	87.0	5.1		29.396	4.3	0.4	2.536
DEC	7.480	172.0	13.3		99.484	96.0	5.8		43.384	2.3	0.5	3.441
AVERAGE:	5.412	163.0	11.0		62.624	84.0	6.1		32.970	2.7	0.7	3.555
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		58	54			58	55			57	57	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PORT MCNICOLL
PLANT : PORT MCNICOLL WPCP
WORKS NUMBER : 110001417
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.04 1000 m3
POPULATION SERVED : 1400

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.599	132.0	12.8		7.667	195.0	10.5		6.289	8.2	0.9	0.557
FEB	0.501	105.0	16.6		8.317	56.0	9.5		4.760	3.9	0.8	0.376
MAR	1.283	78.0	20.2		25.917	36.0	12.5		16.037	2.0	0.6	0.744
APR	1.029	65.0	7.2		7.409	123.0	8.0		8.232	4.5	0.3	0.257
MAY	0.529	160.0	9.4		4.973	170.0	7.4		3.915	7.3	0.6	0.307
JUN	0.445	271.0	3.1		1.380	254.0	1.8		0.801	7.2	0.3	0.134
JUL	0.461	148.0	9.2		4.241	172.0	9.8		4.518	8.5	0.6	0.254
AUG	0.421	126.0	4.0		1.684	102.0	4.4		1.852	7.5	0.6	0.236
SEP	0.387	148.0	2.9		1.122	173.0	4.5		1.742	7.6	0.5	0.190
OCT	0.423	182.0	6.0		2.538	132.0	10.0		4.230	8.6	0.9	0.360
NOV	0.712	97.0	3.2		2.278	101.0	7.7		5.482	8.8	0.4	0.285
DEC	1.041	70.0	11.7		12.180	74.0	12.4		12.908	3.8	0.7	0.770
AVERAGE:	0.653	132.0	8.9		6.642	132.0	8.2		5.897	6.5	0.6	0.373
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		19	18			19	18			19	19	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SCUGOG
PLANT : NONQUON RIVER LAGOON (PORT PERRY)
WORKS NUMBER : 110001257
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT CHLORINATION
DESIGN CAPACITY : 3.18 1000 m3
POPULATION SERVED : 5215

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SCUGOG
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.260	214.0	ND			182.0	ND			9.5	ND	
FEB	1.822	222.0	ND			337.0	ND			23.5	ND	
MAR	2.673	151.0	ND			200.0	ND			6.8	ND	
APR	3.070	221.0	5.9			165.0	6.2			14.4	0.3	
MAY	2.007	213.0	3.9			158.0	4.5			ND	0.3	
JUN	2.358	126.0	ND			103.0	ND			8.4	ND	
JUL	2.372	102.0	ND			144.0	ND			7.4	ND	
AUG	2.086	ND	ND			ND	ND			ND	ND	
SEP	1.999	325.0	ND			30.0	ND			16.3	ND	
OCT	2.067	64.0	10.4			270.0	6.6			16.5	0.6	
NOV	2.427	118.0	15.5			169.0	11.2			6.6	0.5	
DEC	2.907	132.0	ND			198.0	ND			14.2	ND	
AVERAGE:	2.337	172.0	8.9		21.264	178.0	7.1		17.223	12.4	0.4	0.969
OBSERVATIONS:	12	11	4			11	4			10	4	
EXCEEDANCES												
NO OF SAMPLES		12	22			12	23			11	36	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SMITH
PLANT : WOODLAND ACRES WPCP
WORKS NUMBER : 110002381
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.36 1000 m3
POPULATION SERVED : 435

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTONABEE R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.211	30.0	0.4		0.084	25.0	1.3		0.274	1.1	1.8	0.380
FEB	0.167	70.0	5.5		0.919	39.0	1.7		0.284	3.3	2.6	0.431
MAR	0.562	56.0	9.2		5.170	41.0	7.0		3.934	3.3	1.8	1.023
APR	0.561	20.0	1.0		0.561	27.0	1.1		0.617	1.8	1.4	0.785
MAY	0.203	66.0	0.5		0.102	17.0	1.6		0.325	1.4	1.7	0.345
JUN	0.155	20.0	1.0		0.155	26.0	1.1		0.171	1.8	1.4	0.211
JUL	0.141	30.0	1.3		0.183	22.0	2.7		0.381	2.8	2.9	0.402
AUG	0.115	32.0	1.6		0.184	22.0	1.8		0.207	2.4	2.8	0.321
SEP	0.124	61.0	1.2		0.149	42.0	7.1		0.880	3.9	3.9	0.484
OCT	0.140	64.0	1.3		0.182	49.0	7.1		0.994	4.2	4.5	0.630
NOV	0.193	19.0	3.8		0.733	87.0	15.0		2.895	1.0	1.5	0.297
DEC	0.322	37.0	5.4		1.739	20.0	14.8		4.766	1.0	1.6	0.528
AVERAGE:	0.241	42.0	2.7		0.847	35.0	5.2		1.311	2.3	2.3	0.486
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STAYNER
PLANT : STAYNER LAGOON
WORKS NUMBER : 110000695
TREATMENT : AERATED CELL PLUS LAGOON
SEASONAL DISCHARGE
PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 1.04 1000 m3
POPULATION SERVED : 2400

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAMONT CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.249	1236.0	ND			375.0	ND			12.8	ND	
FEB	1.048	1497.0	ND			365.0	ND			9.5	ND	
MAR	1.609	877.0	ND			724.0	ND			12.2	ND	
APR	1.699	627.0	94.2			346.0	35.4			6.4	1.9 *	
MAY	1.154	259.0	ND			175.0	ND			6.5	ND	
JUN	1.112	494.0	ND			205.0	ND			10.8	ND	
JUL	1.122	861.0	ND			211.0	ND			7.9	ND	
AUG	1.054	191.0	8.0			229.0	14.8			9.3	0.5	
SEP	1.036	314.0	17.2			194.0	22.4			10.5	1.8 *	
OCT	1.170	639.0	ND			428.0	ND			11.6	ND	
NOV	1.356	628.0	95.7			150.0	31.6			9.1	1.1 *	
DEC	1.740	823.0	ND			183.0	ND			6.8	ND	
AVERAGE:	1.279	704.0	53.8 *		79.016	299.0	26.1		35.450	9.5	1.3 *	1.752
OBSERVATIONS:	12	12	4			12	4			12	4	
EXCEEDANCES											3	
NO OF SAMPLES		24	4			24	4			24	4	

COMPLIANCE :

BOD - NO
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILITY EXPANSION AND/OR UPGRADING UNDER REVIEW		1990	
INDUSTRIAL LOADING SURVEY BEING PROPOSED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: TOTTENHAM	REGION	: CENTRAL
PLANT	: TOTTENHAM LAGOON	DISTRICT	: BARRIE
WORKS NUMBER	: 120000523	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH	WATERCOURSE	: BEETON CREEK
		MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 0.86 1000 m3	MINOR BASIN	: LAKE HURON
POPULATION SERVED	: 3000	IJC DESIGNATION	: INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.262	131.0	ND			ND	ND			ND	ND	
FEB	0.869	223.0	ND			146.0	ND			8.0	ND	
MAR	1.290	146.0	ND			161.0	ND			5.1	ND	
APR	1.575	11.0	6.0			14.0	1.1			1.3	0.1	
MAY	0.896	164.0	6.9			204.0	40.8			8.5	0.4	
JUN	0.900	111.0	ND			145.0	ND			7.2	ND	
JUL	2.379	111.0	ND			145.0	ND			7.2	ND	
AUG	1.400	121.0	1.6			176.0	12.7			7.0	0.9	
SEP	1.478	175.0	ND			184.0	ND			12.2	ND	
OCT	1.214	631.0	ND			255.0	ND			103.6	ND	
NOV	1.077	120.0	12.3			181.0	13.7			7.8	ND	
DEC	1.457	11.0	ND			140.0	ND			14.0	ND	
AVERAGE:	1.316	163.0	6.7		7.780	159.0	17.1		17.706	16.5	0.5	0.606
OBSERVATIONS:	12	12	4			11	4			11	3	
EXCEEDANCES												
NO OF SAMPLES		27	11			25	9			23	9	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : UXBRIDGE
PLANT : UXBRIDGE BROOK WPCP
WORKS NUMBER : 120000756
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 3.63 1000 m3
POPULATION SERVED : 4550

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : UXBRIDGE BROOK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.511	152.0	12.1		18.283	93.0	1.5		2.266	5.6	0.2	0.272
FEB	1.391	230.0	3.8		5.286	162.0	3.2		4.451	6.5	0.2	0.278
MAR	1.911	122.0	7.0		13.377	72.0	7.9		15.097	3.5	0.2	0.401
APR	2.430	96.0	7.1		17.253	74.0	5.4		13.122	3.0	0.2	0.486
MAY	1.700	164.0	13.6		23.120	130.0	3.7		6.290	7.9	0.2	0.357
JUN	1.891	112.0	6.2		11.724	49.0	2.8		5.295	3.1	0.2	0.359
JUL	2.159	96.0	1.4		3.023	1520.0	2.9		6.261	2.9	0.2	0.389
AUG	1.555	114.0	1.7		2.643	92.0	1.8		2.799	3.5	0.1	0.218
SEP	1.477	85.0	12.3		18.167	121.0	23.9		35.300	4.1	0.5	0.679
OCT	1.489	168.0	19.8		29.482	183.0	3.5		5.212	3.8	0.2	0.298
NOV	1.507	118.0	8.4		12.659	139.0	4.4		6.631	3.5	0.3	0.392
DEC	1.867	405.0	5.9		11.015	165.0	0.5		0.933	4.8	0.1	0.261
AVERAGE:	1.741	155.0	8.3		13.836	233.0	5.1		8.638	4.4	0.2	0.366
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		13	13			13	13			63	240	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VAUGHAN
PLANT : KLEINBURG WPCP
WORKS NUMBER : 120000417
TREATMENT : EXTENDED AERATION

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HUMBER RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.22 1000 m3
POPULATION SERVED : 900

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.211	103.0	6.6		1.393	91.0	10.9		2.300	5.3	4.6	0.979
FEB	0.178	134.0	4.6		0.819	121.0	5.3		0.943	6.2	4.7	0.844
MAR	0.155	105.0	6.8		1.054	126.0	6.7		1.038	6.1	3.9	0.598
APR	0.290	94.0	5.6		1.624	84.0	7.7		2.233	4.8	3.3	0.954
MAY	0.175	126.0	11.5		2.012	181.0	10.8		1.890	6.4	6.0	1.050
JUN	0.183	124.0	4.7		0.860	97.0	5.4		0.988	6.2	4.6	0.840
JUL	0.186	106.0	1.9		0.353	57.0	4.1		0.763	4.4	3.8	0.707
AUG	0.169	186.0	3.6		0.608	140.0	2.5		0.423	8.3	4.5	0.757
SEP	0.177	108.0	3.3		0.584	160.0	4.9		0.867	8.8	4.6	0.821
OCT	0.177	126.0	1.2		0.212	76.0	7.0		1.239	6.6	5.1	0.901
NOV	0.234	85.0	2.0		0.468	76.0	14.2		3.323	4.8	4.6	1.083
DEC	0.290	92.0	2.4		0.696	75.0	8.4		2.436	4.2	3.6	1.029
AVERAGE:	0.202	116.0	4.5		0.890	107.0	7.3		1.537	6.0	4.4	0.880
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VICTORIA HARBOUR
PLANT : VICTORIA HARBOUR WPCP
WORKS NUMBER : 120003227
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 2.36 1000 m3
POPULATION SERVED : 1646

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.631	91.0	3.0		1.893	105.0	0.6		0.379	3.5	0.2	0.101
FEB	0.637	87.0	5.1		3.249	65.0	0.6		0.382	3.6	0.1	0.038
MAR	0.826	92.0	1.6		1.322	76.0	1.5		1.239	2.8	0.1	0.083
APR	0.737	138.0	3.0		2.211	101.0	1.0		0.737	2.9	0.1	0.088
MAY	0.720	119.0	4.0		2.880	82.0	0.8		0.576	4.7	0.3	0.223
JUN	0.683	92.0	1.7		1.161	63.0	4.3		2.937	3.6	0.3	0.205
JUL	0.635	99.0	1.3		0.826	110.0	1.3		0.826	5.7	0.2	0.146
AUG	0.587	79.0	1.8		1.057	53.0	0.8		0.470	5.8	0.2	0.112
SEP	0.495	73.0	2.4		1.188	55.0	2.3		1.138	3.8	0.2	0.119
OCT	0.475	114.0	1.2		0.570	77.0	0.4		0.190	4.1	0.3	0.128
NOV	0.630	100.0	1.6		1.008	108.0	1.0		0.630	3.9	0.2	0.095
DEC	0.800	103.0	5.7		4.560	109.0	0.6		0.480	3.7	0.1	0.104
AVERAGE:	0.655	99.0	2.7		1.827	84.0	1.3		0.832	4.0	0.2	0.120
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		20	23			18	23			20	31	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WASAGA BEACH
PLANT : WASAGA BEACH WPCP (SUM.POP.SERV.73000)
WORKS NUMBER : 120001862
TREATMENT : EXTENDED AERATION
EFFLUENT POLISHING
EXFILTRATION
DESIGN CAPACITY : 5.77 1000 m3
POPULATION SERVED : 3090

REGION : CENTRAL
DISTRICT : BARRIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.723	53.0	ND		ND	35.0	ND		ND	2.9	ND	ND
FEB	0.705	100.0	ND		ND	74.0	ND		ND	5.8	ND	ND
MAR	0.795	89.0	ND		ND	69.0	ND		ND	4.6	ND	ND
APR	0.954	35.0	ND		ND	24.0	ND		ND	2.1	ND	ND
MAY	1.029	68.0	ND		ND	45.0	ND		ND	3.8	ND	ND
JUN	1.198	93.0	ND		ND	91.0	ND		ND	4.7	ND	ND
JUL	2.123	166.0	ND		ND	160.0	ND		ND	6.8	ND	ND
AUG	1.912	188.0	ND		ND	165.0	ND		ND	10.6	ND	ND
SEP	1.101	68.0	ND		ND	59.0	ND		ND	4.6	ND	ND
OCT	0.759	92.0	ND		ND	77.0	ND		ND	5.1	ND	ND
NOV	0.709	95.0	ND		ND	73.0	ND		ND	4.6	ND	ND
DEC	0.776	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	1.065	95.0	0.0		0.000	79.0	0.0		0.000	5.1	0.0	0.000
OBSERVATIONS:	12	11	0			11	0			11	0	
EXCEEDANCES												
NO OF SAMPLES		19	0			18	0			18	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WHITBY
PLANT : CORBETT CREEK WPCP
WORKS NUMBER : 120000738
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 26100

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	16.377	72.0	22.0		360.294	110.0	12.6		206.350	4.6	1.1 *	18.178
FEB	12.358	135.0	12.0		148.296	183.0	8.5		105.043	5.8	0.7	8.898
MAR	16.523	152.0	11.0		181.753	174.0	11.5		190.014	5.7	0.9	14.210
APR	17.757	229.0	7.2		127.850	175.0	9.1		161.589	5.0	0.8	14.561
MAY	13.965	149.0	39.8		555.807	228.0	17.7		247.180	6.1	0.9	13.127
JUN	17.010	111.0	17.0		289.170	157.0	18.1		307.881	7.1	1.6 *	26.536
JUL	20.233	289.0	21.7		439.056	170.0	15.7		317.658	10.9	1.6 *	31.766
AUG	20.205	287.0	46.2		933.471	236.0	48.4		977.922	11.4	3.2 *	64.050
SEP	20.262	178.0	10.0		202.620	162.0	15.9		322.166	7.8	0.4	8.915
OCT	22.313	240.0	24.4		544.437	174.0	38.0		847.894	16.6	3.4 *	75.641
NOV	23.693	170.0	20.9		495.184	193.0	31.8		753.437	14.0	2.5 *	58.759
DEC	28.919	ND	23.2		670.921	97.0	20.9		604.407	10.7	2.0 *	56.970
AVERAGE:	19.135	183.0	21.3		412.405	172.0	20.7		420.128	8.8	1.6 *	32.634
OBSERVATIONS:	12	11	12			12	12			12	12	
EXCEEDANCES											7	
NO OF SAMPLES		11	12			56	56			200	239	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING BY-LAWS	87/07/01	88/06/30	89/12/31
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	87/07/01	88/06/30	89/12/31
CONDUCTING TREATABILITY STUDIES	87/07/01	88/06/30	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WHITBY
PLANT : PRINGLE CREEK WPCP NO 1
WORKS NUMBER : 120000747
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRINGLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 5.68 1000 m3
POPULATION SERVED : 10925

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.668	118.0	4.6		16.873	143.0	7.3		26.776	5.5	0.5	1.871
FEB	3.387	129.0	5.3		17.951	152.0	7.6		25.741	5.9	0.4	1.423
MAR	3.463	157.0	6.0		20.778	152.0	7.0		24.241	4.1	0.3	1.004
APR	4.030	163.0	7.7		31.031	102.0	5.5		22.165	3.9	0.5	2.015
MAY	2.727	110.0	7.6		20.725	95.0	4.4		11.999	5.5	0.6	1.500
JUN	3.065	60.0	4.1		12.566	153.0	6.9		21.149	5.4	0.8	2.299
JUL	2.212	81.0	2.0		4.424	168.0	8.9		19.687	5.4	0.6	1.283
AUG	2.755	104.0	3.1		8.540	319.0	14.7		40.498	5.0	0.7	2.011
SEP	4.008	83.0	3.6		14.429	460.0	35.8		143.486	4.8	0.8	3.166
OCT	4.407	276.0	12.9		56.850	292.0	26.5		116.785	5.2	0.9	3.746
NOV	3.692	66.0	13.2		48.734	121.0	12.7		46.888	4.4	0.7	2.584
DEC	4.081	49.0	6.1		24.894	107.0	10.3		42.034	3.0	0.5	2.041
AVERAGE:	3.458	116.0	6.4		23.150	189.0	12.3		45.121	4.8	0.6	2.079
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			97	90			246	285	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	WHITBY
PLANT	PRINGLE CREEK WPCP NO 2
WORKS NUMBER	120003101
TREATMENT	CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS
REGION	CENTRAL
DISTRICT	YORK DURHAM
OPERATING AUTHORITY	MUNICIPAL
WATERCOURSE	PRINGLE CREEK
MAJOR BASIN	GREAT LAKES
MINOR BASIN	LAKE ONTARIO
IJC DESIGNATION	INDIRECT

DESIGN CAPACITY : 9.09 1000 m3

POPULATION SERVED : 10925

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	6.419	118.0	6.8		43.649	143.0	8.1		51.994	5.5	0.9	5.970
FEB	6.398	129.0	10.1		64.620	152.0	8.1		51.824	5.0	0.6	3.903
MAR	5.981	157.0	6.6		39.475	152.0	11.5		68.781	4.1	0.4	2.512
APR	6.835	163.0	ND		ND	102.0	5.6		38.276	3.9	0.7	4.716
MAY	5.280	110.0	9.4		49.632	95.0	6.1		32.208	5.6	0.7	3.907
JUN	6.185	60.0	4.4		27.214	153.0	7.4		45.769	5.4	0.7	4.144
JUL	4.967	81.0	3.1		15.398	168.0	8.1		40.233	5.4	0.5	2.285
AUG	5.585	104.0	3.0		16.755	319.0	26.3		146.886	5.0	0.7	4.133
SEP	6.519	83.0	6.0		39.114	460.0	28.8		187.747	4.8	0.8	5.411
OCT	5.277	276.0	12.8		67.546	292.0	25.8		136.147	5.2	0.8	4.327
NOV	4.233	66.0	13.9		58.839	121.0	10.4		44.023	4.4	0.8	3.344
DEC	4.779	49.0	4.8		22.939	107.0	8.7		41.577	3.0	0.8	3.871
AVERAGE:	5.705	116.0	7.4		40.471	189.0	12.9		73.789	4.8	0.7	4.044
OBSERVATIONS:12		12	11			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	11			92	88			227	284	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WHITCHURCH-STOUFFVILLE
PLANT : STOUFFVILLE WPCP
WORKS NUMBER : 120000408
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 3.86 1000 m3
POPULATION SERVED : 5500

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DUFFIN CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.165	105.0	3.0		9.495	127.0	1.2		3.798	5.2	0.4	1.139
FEB	2.941	108.0	4.3		12.646	81.0	2.3		6.764	5.4	0.4	1.059
MAR	4.412	59.0	3.5		15.442	48.0	2.5		11.030	3.9	0.4	1.721
APR	4.743	35.0	2.3		10.909	35.0	1.7		8.063	2.4	0.4	1.660
MAY	3.698	76.0	6.5		24.037	55.0	1.7		6.287	4.3	0.5	1.849
JUN	3.599	75.0	2.4		8.638	74.0	1.4		5.039	4.2	0.3	1.008
JUL	3.422	132.0	2.0		6.844	93.0	2.0		6.844	4.8	0.2	0.684
AUG	3.040	82.0	4.0		12.160	84.0	2.5		7.600	5.5	0.3	0.851
SEP	3.284	81.0	1.2		3.941	47.0	0.1		0.328	5.1	0.2	0.493
OCT	3.196	111.0	2.2		7.031	154.0	1.8		5.753	8.6	0.2	0.767
NOV	3.530	122.0	4.6		16.238	131.0	1.2		4.236	8.2	0.3	0.918
DEC	4.037	71.0	2.6		10.496	92.0	0.9		3.633	5.2	0.5	2.180
AVERAGE:	3.589	88.0	3.2		11.490	85.0	1.6		5.781	5.2	0.3	1.194
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			23	21			23	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

Southeastern Region

④

Ministry
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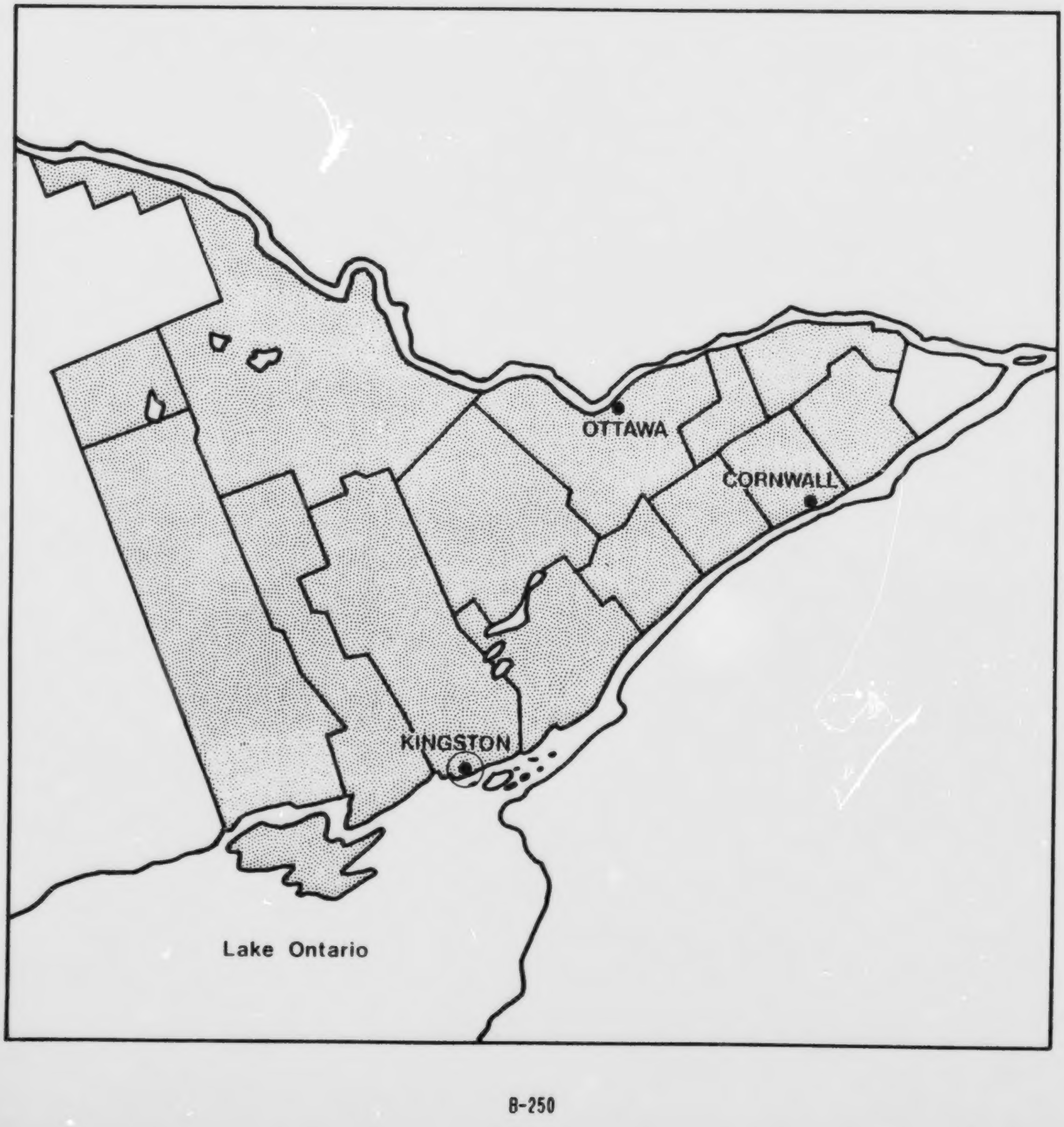
OTTAWA
CORNWALL
KINGSTON
Lake Ontario

Southeastern Region

④

Ministry
of the
Environment
Ontario

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SUB-OFFICES

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K8N 1Z5
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Pembroke
1000 MacKay St.
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SOUTHEASTERN SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	0	.000	.381	.381 (.084)
Primary	3	12	15	64.780	508.929	573.709 (126.201)
Conventional Activated Sludge	4	3	7	96.034	40.004	136.039 (29.925)
Modified Activated Sludge	1	0	1	12.274	.000	12.274 (2.700)
Contact Stabilization	1	1	2	1.363	4.546	5.909 (1.300)
Extended Aeration	11	5	16	7.687	7.523	15.210 (3.346)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	1	0	1	5.455	.000	5.455 (1.200)
Oxidation Ditch	0	0	0	.000	.000	.000 .000
Aerated Lagoon	0	0	0	.000	.000	.000 (.000)
Conventional Lagoon Continuous	1	1	2	2.391	5.909	8.300 (1.826)
Conventional Lagoon Seasonal	10	4	14	12.960	22.593	35.554 (7.821)
Conventional Lagoon Annual	2	0	2	1.654	.000	1.654 (.364)
Lagoon and Spray	1	1	2	.336	.363	.700 (.154)
Aerated Cell Plus Lagoon	3	0	3	12.728	.000	12.728 (2.800)
Exfiltration Lagoon	0	0	0	.000	.000	.000 (.000)
TOTALS	38	28	66	217.667 (47.881)	590.252 (129.840)	807.919 (177.721)

10^3m/d: THOUSANDS OF CUBIC METRES PER DAY
mlgd: MILLION IMPERIAL GALLONS PER DAY
01307-PDR.47

CONVERSION FACTOR
$10^3m^3/d$ = .220 MIGD

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ALEXANDRIA
PLANT : ALEXANDRIA LAGOON
WORKS NUMBER : 110000846
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 7.84 1000 m3
POPULATION SERVED : 3500

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DELISLE R
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.659	62.0	39.0		181.701	64.0	25.0		116.475	4.0	1.2 *	5.591
FEB	4.424	165.0	15.0		66.360	59.0	29.4		130.066	3.1	1.3 *	5.840
MAR	8.051	74.0	25.0		201.275	54.0	20.0		161.020	3.9	1.1 *	9.017
APR	6.714	64.0	30.4		204.106	48.0	35.5		238.347	1.7	1.2 *	7.923
MAY	4.734	62.0	10.8		51.127	59.0	23.4		110.776	2.2	0.5	2.272
JUN	7.082	57.0	17.0		120.394	57.0	10.0		70.820	3.1	0.5	3.541
JUL	5.629	64.0	12.7		71.488	49.0	18.7		105.262	3.2	0.5	2.589
AUG	4.596	82.0	13.4		61.586	34.0	6.9		31.712	2.3	0.6	2.574
SEP	5.054	36.0	9.5		48.013	117.0	6.7		33.862	2.6	0.1	0.253
OCT	4.990	56.0	6.0		29.940	167.0	7.0		34.930	3.0	0.2	0.848
NOV	4.458	44.0	9.5		42.351	73.0	6.8		30.314	2.9	0.2	0.802
DEC	7.361	25.0	5.0		36.805	42.0	7.4		54.471	3.4	0.1	0.515
AVERAGE:	5.646	66.0	16.1		92.929	69.0	16.4		93.171	2.9	0.6	3.480
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											4	
NO OF SAMPLES		67	103			75	116			68	110	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CHANGE OF PHOSPHORUS REMOVAL CHEMICAL	86/01/01	86/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ALFRED
PLANT : ALFRED LAGOON
WORKS NUMBER : 110001836
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RUISSEAU DES ATOCAS
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.71 1000 m3
POPULATION SERVED : 1055

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.410	48.0	ND			368.0	ND			7.6	ND	
FEB	0.385	89.0	ND			227.0	ND			7.9	ND	
MAR	0.458	103.0	20.0			449.0	27.0			8.0	6.7	
APR	0.511	65.0	10.7			131.0	24.2			5.2	3.6	
MAY	0.554	68.0	ND			703.0	ND			7.7	ND	
JUN	0.637	94.0	ND			344.0	ND			7.2	ND	
JUL	0.444	93.0	ND			151.0	ND			13.4	ND	
AUG	0.409	92.0	ND			338.0	ND			6.7	ND	
SEP	0.472	77.0	ND			195.0	ND			7.1	ND	
OCT	0.475	213.0	ND			932.0	ND			7.6	ND	
NOV	0.476	110.0	ND			230.0	ND			7.8	ND	
DEC	0.528	109.0	ND			179.0	ND			7.7	ND	
AVERAGE:	0.480	97.0	15.4		7.314	354.0	25.6		12.366	7.8	5.2	2.454
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		24	8			24	8			24	8	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ALMONTE
PLANT : ALMONTE LAGOON
WORKS NUMBER : 110000873
TREATMENT : AERATED CELL PLUS LAGOON
SEASONAL DISCHARGE
PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 1.54 1000 m3
POPULATION SERVED : 4025

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MISSISSIPPI RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.390	156.0	ND			248.0	ND			8.7	ND	
FEB	1.371	277.0	ND			402.0	ND			13.0	ND	
MAR	4.229	184.0	ND			549.0	ND			8.0	ND	
APR	3.595	85.0	ND			150.0	ND			3.8	ND	
MAY	1.808	161.0	12.7			207.0	11.2			7.2	0.5	
JUN	2.085	126.0	ND			140.0	ND			5.0	ND	
JUL	1.973	70.0	ND			191.0	ND			6.5	ND	
AUG	1.252	104.0	ND			141.0	ND			6.8	ND	
SEP	1.390	230.0	ND			470.0	ND			12.1	ND	
OCT	1.804	80.0	8.6			88.0	15.2			5.7	0.8	
NOV	1.962	99.0	ND			166.0	ND			7.8	ND	
DEC	3.190	84.0	ND			136.0	ND			4.8	ND	
AVERAGE:	2.171	138.0	10.7		19.238	241.0	13.2		23.835	7.5	0.6	1.111
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		14	2			14	2			14	2	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	1984	88/06/30	1991
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	1984	88/06/30	1991

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ARNPRIOR
PLANT : ARNPRIOR WPCP
WORKS NUMBER : 120000621
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 5800

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MADAWASKA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.800	170.0	82.0	52	311.600	90.0	42.0	53	159.600	3.8	1.0	3.800
FEB	3.682	ND	ND	0	ND	72.0	51.0	29	187.782	5.2	1.9 *	6.996
MAR	7.405	80.0	29.0	64	214.745	94.0	37.0	61	273.985	6.3	2.0 *	14.514
APR	7.546	46.0	34.0	26	256.564	25.0	38.0	0	286.748	1.3	0.8	6.037
MAY	5.046	153.0	59.0	61	297.714	100.0	42.0	58	211.932	3.6	0.9	4.491
JUN	5.396	97.0	46.0	53	248.216	97.0	42.0	57	226.632	3.5	1.0	5.180
JUL	4.632	48.0	45.8	5	212.146	39.0	24.5	37	113.484	2.3	0.7	3.150
AUG	4.364	92.0	45.0	51	196.380	51.0	36.0	29	157.104	2.3	0.6	2.444
SEP	4.046	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	4.500	40.0	12.0	70	54.000	74.0	46.0	38	207.000	1.9	1.8 *	8.280
NOV	4.819	68.0	54.0	21	260.226	94.0	41.0	56	197.579	2.0	1.2 *	5.686
DEC	6.001	72.0	65.0	10	390.065	43.0	29.0	33	174.029	2.0	0.9	5.401
AVERAGE:	5.103	87.0	47.2	41 *	244.166	71.0	39.0	45 *	199.625	3.1	1.2 *	5.998
OBSERVATIONS:12		10	10			11	11			11	11	
EXCEEDANCES											4	
NO OF SAMPLES		33	42			34	43			34	43	

COMPLIANCE :

BOD - NO
SS - NO
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW	89/01/01	90/01/31	92/01/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	88/01/01	88/09/30	
INFILTRATION PROBLEMS ARE BEING CORRECTED		90/01/31	
PROGRAM UNDER REVIEW	87/11/01	89/01/31	
INPLANT SAMPLING PROGRAM IS BEING MODIFIED	87/03/01	87/12/01	
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	87/03/01	87/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BANCROFT
PLANT : BANCROFT WPCP
WORKS NUMBER : 110001239
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : YORK RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 4.13 1000 m3
POPULATION SERVED : 2095

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.027	79.0	7.8		8.011	95.0	9.2		9.448	4.2	2.7	2.722
FEB	1.003	ND	ND		ND	90.0	7.5		7.522	5.8	3.1	3.109
MAR	1.162	50.0	4.0		4.648	71.0	5.0		5.810	3.9	2.3	2.615
APR	1.723	62.0	3.9		6.720	61.0	4.7		8.098	3.5	1.6	2.826
MAY	1.266	60.0	3.0		3.798	97.0	4.2		5.317	4.7	2.4	3.089
JUN	1.178	80.0	1.2		1.414	96.0	3.3		3.887	8.0	2.5	2.933
JUL	1.042	84.0	4.0		4.168	107.0	5.5		5.731	10.4	2.9	3.053
AUG	1.013	50.0	1.3		1.317	113.0	6.8		6.888	3.6	2.1	2.107
SEP	0.979	ND	ND		ND	103.0	8.2		8.028	ND	ND	ND
OCT	0.998	255.0	3.6		3.593	106.0	9.8		9.780	6.4	1.5	1.457
NOV	1.072	68.0	4.4		4.717	110.0	9.6		10.291	7.3	2.9	3.055
DEC	1.280	64.0	4.2		5.376	260.0	11.0		14.080	4.3	0.9	1.114
AVERAGE:	1.145	85.0	3.7		4.376	109.0	7.1		7.907	5.6	2.3	2.553
OBSERVATIONS:	12	10	10			12	12			11	11	
EXCEEDANCES												
NO OF SAMPLES		14	15			78	79			15	16	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BARRY'S BAY
PLANT : BARRY'S BAY WPCP
WORKS NUMBER : 110001854
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.24 1000 m3
POPULATION SERVED : 1413

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : KAMANISKEG LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.283	125.0	8.7		2.462	223.0	11.0		3.113	7.8	0.7	0.195
FEB	0.300	82.0	11.0		3.300	197.0	7.7		2.310	8.6	0.7	0.219
MAR	0.395	100.0	3.5		1.383	146.0	10.8		4.266	7.5	0.5	0.205
APR	0.454	91.0	3.5		1.589	212.0	8.2		3.723	6.6	0.5	0.204
MAY	0.458	106.0	1.6		0.733	171.0	8.3		3.801	6.8	0.4	0.183
JUN	0.503	117.0	1.2		0.604	183.0	8.7		4.376	6.3	0.5	0.252
JUL	0.537	102.0	2.2		1.181	247.0	8.1		4.350	8.0	0.6	0.301
AUG	0.463	120.0	2.1		0.972	251.0	9.8		4.537	6.8	0.7	0.306
SEP	0.420	135.0	3.6		1.512	290.0	8.8		3.696	7.5	0.9	0.357
OCT	0.388	136.0	3.4		1.319	215.0	9.8		3.802	6.8	0.5	0.210
NOV	0.345	145.0	3.3		1.138	252.0	10.4		3.588	7.4	0.7	0.238
DEC	0.310	123.0	3.6		1.116	341.0	10.0		3.100	7.4	0.4	0.133
AVERAGE:	0.405	115.0	4.0		1.442	227.0	9.3		3.722	7.3	0.6	0.234
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			68	68			66	72	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BATH
PLANT : BATH WPCP
WORKS NUMBER : 120000177
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.16 1000 m3
POPULATION SERVED : 1500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.002	92.0	0.7		0.701	79.0	30.5		30.561	5.0	1.9	1.904
FEB	0.969	165.0	3.0		2.907	48.0	6.3		6.105	5.2	1.3	1.298
MAR	1.166	30.0	6.0		6.996	41.0	9.0		10.494	1.8	0.9	1.014
APR	0.921	110.0	4.5		4.144	133.0	7.5		6.908	5.9	2.7	2.524
MAY	0.831	144.0	3.5		2.909	119.0	7.0		5.817	8.1	3.6	2.967
JUN	0.873	147.0	1.8		1.571	110.0	4.2		3.667	4.6	1.8	1.606
JUL	0.997	177.0	1.5		1.496	161.0	7.4		7.378	6.5	3.0	3.031
AUG	1.013	117.0	1.5		1.519	128.0	6.6		6.686	4.8	3.2	3.252
SEP	1.110	147.0	1.3		1.443	111.0	0.5		0.555	4.7	2.7	2.953
OCT	0.906	74.0	2.9		2.627	100.0	3.4		3.080	7.1	3.4	3.080
NOV	1.175	196.0	2.6		3.055	157.0	7.0		8.225	6.5	2.2	2.573
DEC	1.195	310.0	11.0		13.145	212.0	4.4		5.258	4.3	1.4	1.673
AVERAGE:	1.013	142.0	3.4		3.543	117.0	7.8		7.895	5.4	2.3	2.323
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	22			18	23			23	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BELLEVILLE
PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY)
WORKS NUMBER : 110000016
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 54.55 1000 m3
POPULATION SERVED : 35351

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	31.884	143.0	39.0		1243.476	106.0	21.4		682.318	3.9	0.4	12.754
FEB	32.100	126.0	36.0		1155.600	94.0	15.0		481.500	4.0	0.5	16.050
MAR	44.558	100.0	14.2		632.724	74.0	13.0		579.254	3.0	0.4	17.823
APR	46.080	46.0	15.7		723.456	68.0	13.3		612.864	1.8	0.3	13.824
MAY	26.113	181.0	26.0		678.938	88.0	7.9		206.293	3.4	0.5	13.056
JUN	25.867	154.0	37.4		967.426	112.0	11.4		294.884	3.7	0.6	15.520
JUL	27.910	108.0	20.2		563.782	104.0	11.9		332.129	3.5	0.6	16.746
AUG	29.600	80.0	21.0		621.600	95.0	15.2		449.920	4.0	0.6	17.760
SEP	25.317	157.0	32.2		815.207	100.0	12.8		324.058	3.8	0.7	17.722
OCT	23.042	175.0	18.9		435.494	145.0	10.2		235.028	4.8	0.5	11.521
NOV	32.703	182.0	26.3		860.089	144.0	10.0		327.030	4.7	0.5	16.352
DEC	41.887	127.0	23.2		971.778	115.0	12.7		531.965	3.4	0.5	20.944
AVERAGE:	32.255	132.0	25.8 *		805.798	104.0	12.9		421.437	3.7	0.5	15.839
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		52	50			142	145			129	129	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	86/01/01	86/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BROCKVILLE
PLANT : BROCKVILLE WPCP
WORKS NUMBER : 120000122
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 25.57 1000 m3
POPULATION SERVED : 20169

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	13.595	137.0	45.0	67	611.775	174.0	25.1	86	341.235	5.9	1.6 *	21.072
FEB	12.909	26.0	4.0	85	51.636	57.0	14.2	75	183.308	5.3	1.0	12.909
MAR	20.005	48.0	15.0	69	300.075	81.0	23.8	71	476.119	4.8	1.0	19.605
APR	16.761	136.0	34.5	75	578.255	141.0	25.5	82	427.405	5.1	0.8	14.079
MAY	13.014	168.0	26.5	84	344.871	155.0	34.5	78	448.983	8.7	2.1 *	27.199
JUN	13.786	112.0	21.5	81	296.399	178.0	27.8	84	383.251	6.4	1.5 *	19.990
JUL	15.318	26.0	9.8	62	150.116	143.0	21.7	85	332.401	5.0	1.7 *	26.653
AUG	15.884	147.0	57.0	61	905.388	120.0	32.6	73	517.818	7.8	4.7 *	74.655
SEP	19.063	97.0	32.0	67	610.016	100.0	57.8	42	1101.841	6.4	2.4 *	45.179
OCT	19.717	172.0	29.0	83	571.793	124.0	49.3	60	972.048	6.8	2.6 *	50.870
NOV	19.291	96.0	43.0	55	829.513	139.0	75.0	46	1446.825	8.9	3.8 *	73.306
DEC	24.159	112.0	37.0	67	893.883	96.0	45.8	52	1106.482	5.2	1.9 *	45.419
AVERAGE:	16.959	106.0	29.5	71	511.977	126.0	36.1	70 *	644.810	6.4	2.1 *	35.911
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											9	
NO OF SAMPLES		22	21			50	50			46	46	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 50%
SS - NO	SS - 70%
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENFORCING BY-LAWS			
INSTALLATION OF PRE-TREATMENT EQUIPMENT UNDERTAKEN			
CONDUCTING TREATABILITY STUDIES	87/12/01	89/03/31	89/04/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: CARLETON PLACE	REGION	: SOUTHEAST
PLANT	: CARLETON PLACE WPCP	DISTRICT	: OTTAWA
WORKS NUMBER	: 110000971	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: HIGH RATE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: MISSISSIPPI RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: OTTAWA RIVER
DESIGN CAPACITY	: 5.45 1000 m3	IJC DESIGNATION	: NON IJC
POPULATION SERVED	: 5721		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	5.561	88.0	14.0		77.854	68.0	23.5		130.684	2.8	1.4 *	7.730
FEB	4.302	61.0	34.0		146.268	55.0	49.0		210.798	3.1	1.5 *	6.453
MAR	5.423	18.0	12.0		65.076	30.0	25.5		138.286	1.7	1.3 *	6.941
APR	6.297	37.0	11.5		72.415	60.0	31.0		195.207	2.1	0.9	5.856
MAY	5.267	65.0	9.5		50.037	75.0	19.0		100.073	3.2	0.8	4.372
JUN	6.238	42.0	16.2		101.056	85.0	35.0		218.330	2.7	0.8	5.178
JUL	5.397	22.0	6.0		32.382	21.0	11.0		59.367	1.8	0.6	3.454
AUG	6.010	28.0	1.6		9.616	78.0	9.0		54.090	2.5	0.4	2.584
SEP	5.620	20.0	86.7		487.254	121.0	594.0		3338.280	1.6	13.0 *	73.172
OCT	5.182	50.0	26.0		134.732	83.0	57.0		295.374	3.0	ND	ND
NOV	5.540	44.0	17.0		94.180	101.0	52.0		288.080	3.1	1.6 *	9.086
DEC	5.950	69.0	16.0		95.200	193.0	49.9		296.905	3.9	1.3 *	7.735
AVERAGE:	5.566	45.0	20.9		113.839	81.0	79.7 *		443.790	2.6	2.2 *	12.051
OBSERVATIONS:12		12	12			12	12			12	11	
EXCEEDANCES											6	
NO OF SAMPLES		15	15			15	15			15	14	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/02/01	88/02/01	
ENGINEERING STUDY PHASE	87/02/01	88/02/01	
SEWER SEPARATION UNDERWAY	84/01/01		
SEWER REPLACEMENT UNDERWAY	84/01/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CASSELMAN
PLANT : CASSELMAN LAGOON
WORKS NUMBER : 110002201
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : S. NATION RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 2021

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.657	71.0	ND			40.0	ND			4.4	ND	
FEB	0.593	113.0	ND			70.0	ND			5.8	ND	
MAR	0.890	46.0	ND			67.0	ND			4.8	ND	
APR	0.924	39.0	3.6			25.0	5.0			3.0	0.2	
MAY	0.693	30.0	ND			48.0	ND			4.1	ND	
JUN	0.705	36.0	ND			36.0	ND			3.4	ND	
JUL	0.737	78.0	ND			105.0	ND			6.1	ND	
AUG	0.648	51.0	ND			41.0	ND			4.2	ND	
SEP	0.660	28.0	ND			73.0	ND			4.8	ND	
OCT	0.672	62.0	ND			126.0	ND			5.2	ND	
NOV	0.717	44.0	3.0			94.0	4.8			4.2	0.9	
DEC	0.956	64.0	ND			43.0	ND			2.7	ND	
AVERAGE:	0.738	55.0	3.3		2.739	64.0	4.9		4.031	4.4	0.5	0.400
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		21	5			21	4			21	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CHALK RIVER
PLANT : CHALK RIVER WPCP
WORKS NUMBER : 110001587
TREATMENT : EXTENDED AERATION
CONVERTIBLE OPERATING MODE

DESIGN CAPACITY : 0.36 1000 m3
POPULATION SERVED : 986

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DUCK CR TO DUCK LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.371	107.0	20.7		7.680	178.0	26.2		9.720	3.7	2.6	0.957
FEB	0.394	99.0	22.0		8.668	170.0	28.4		11.190	5.1	1.8	0.709
MAR	0.384	121.0	13.0		4.992	124.0	26.0		9.984	5.7	3.0	1.152
APR	0.493	48.0	11.0		5.423	144.0	15.0		7.395	3.4	1.1	0.542
MAY	0.411	98.0	10.6		4.357	103.0	15.6		6.412	4.1	1.5	0.633
JUN	0.410	99.0	19.5		7.995	154.0	27.7		11.357	5.3	2.5	1.025
JUL	0.374	80.0	23.2		8.677	158.0	35.0		13.090	5.9	1.9	0.711
AUG	0.407	71.0	24.0		9.768	154.0	23.0		9.361	7.0	2.0	0.814
SEP	0.399	137.0	25.0		9.975	146.0	15.0		5.985	6.1	1.5	0.599
OCT	0.371	79.0	19.0		7.049	219.0	26.0		9.646	4.9	1.7	0.631
NOV	0.370	117.0	6.6		2.442	143.0	22.0		8.140	4.2	2.2	0.814
DEC	0.375	101.0	19.0		7.125	101.0	16.0		6.000	3.2	1.3	0.488
AVERAGE:	0.397	96.0	17.8		7.013	150.0	23.0		9.023	4.9	1.9	0.756
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		37	37			48	56			39	39	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CHESTERVILLE
PLANT : CHESTERVILLE LAGOON
WORKS NUMBER : 110000114
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 3.61 1000 m3
POPULATION SERVED : 1460

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SOUTH NATION RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.607	74.0	ND			89.0	ND			4.4	ND	
FEB	0.520	74.0	ND			52.0	ND			5.2	ND	
MAR	1.127	71.0	ND			104.0	ND			5.8	ND	
APR	1.024	28.0	20.0			42.0	19.0			2.3	2.7	
MAY	0.653	50.0	ND			54.0	ND			3.6	ND	
JUN	0.727	38.0	ND			94.0	ND			3.1	ND	
JUL	0.814	34.0	ND			48.0	ND			3.7	ND	
AUG	0.576	40.0	ND			57.0	ND			3.8	ND	
SEP	0.589	40.0	ND			76.0	ND			4.8	ND	
OCT	0.614	44.0	ND			41.0	ND			4.1	ND	
NOV	0.721	42.0	4.0			44.0	10.4			3.8	2.8	
DEC	1.083	34.0	ND			48.0	ND			2.3	ND	
AVERAGE:	0.755	47.0	12.0		11.682	62.0	14.7		13.477	3.9	2.7	2.392
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		21	6			22	6			22	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COBDEN
PLANT : COBDEN WPCP
WORKS NUMBER : 120000596
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 1035

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKRAT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.555	44.0	3.6		1.998	61.0	11.0		6.105	3.2	0.9	0.500
FEB	0.522	ND	ND		ND	74.0	14.0		7.308	5.3	1.0	0.522
MAR	1.156	24.0	1.2		1.387	54.0	9.0		10.404	3.4	0.8	0.867
APR	1.270	65.0	2.0		2.540	37.0	13.0		16.510	3.5	0.6	0.724
MAY	0.824	50.0	10.0		8.240	64.0	8.0		6.592	3.8	0.8	0.643
JUN	0.860	36.0	1.5		1.290	51.0	7.3		6.278	3.7	0.7	0.568
JUL	0.595	66.0	1.0		0.595	78.0	6.3		3.748	5.1	1.0	0.607
AUG	0.523	44.0	1.2		0.628	64.0	7.3		3.818	4.9	0.8	0.434
SEP	0.528	46.0	1.0		0.528	48.0	7.1		3.749	4.6	0.7	0.370
OCT	0.649	62.0	4.0		2.596	59.0	6.4		4.154	4.4	0.7	0.454
NOV	0.666	48.0	2.2		1.465	59.0	6.3		4.196	4.4	0.7	0.440
DEC	0.888	52.0	2.0		1.776	60.0	6.9		6.127	3.8	0.9	0.773
AVERAGE:	0.753	49.0	2.7		2.095	59.0	8.5		6.582	4.2	0.8	0.575
OBSERVATIONS:	12	11	11			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		11	11			50	64			49	49	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW	87/02/01	87/06/30	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/01/01	88/01/31	88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: CORNWALL	REGION	: SOUTHEAST
PLANT	: CORNWALL WPCP	DISTRICT	: CORNWALL
WORKS NUMBER	: 110000132	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: PRIMARY PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: ST. LAWRENCE RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: ST. LAWRENCE RIVER
DESIGN CAPACITY	: 54.55 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 46800		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	45.540	110.0	58.0	47	2641.320	98.0	41.0	58	1867.140	2.8	1.4 *	63.756
FEB	36.710	126.0	92.0	27	3377.320	149.0	59.0	60	2165.890	3.0	1.8 *	66.078
MAR	59.980	58.0	54.0	7	3238.920	109.0	38.0	65	2279.240	1.9	1.3 *	77.974
APR	48.870	59.0	45.0	24	2199.150	118.0	30.0	75	1466.100	2.0	1.2 *	58.644
MAY	44.460	80.0	47.0	41	2089.620	264.0	27.0	90	1200.420	2.9	1.2 *	53.352
JUN	46.290	64.0	28.0	56	1296.120	182.0	24.0	87	1110.960	2.6	0.8	37.032
JUL	46.680	60.0	46.0	23	2147.280	126.0	28.0	78	1307.040	2.8	0.7	32.676
AUG	40.970	ND	ND	0	ND	224.0	26.0	88	1065.220	5.3	0.7	28.679
SEP	39.540	52.0	12.0	77	474.480	185.0	20.0	89	790.800	3.8	0.7	27.678
OCT	32.550	55.0	15.0	73	488.250	189.0	19.0	90	618.450	3.5	0.9	29.295
NOV	34.940	54.0	12.3	77	429.762	154.0	15.0	90	524.100	3.3	0.8	27.952
DEC	47.660	63.0	15.0	76	714.900	40.0	16.0	60	762.560	1.6	0.6	28.596
AVERAGE:	43.683	71.0	38.6	48 *	1736.102	153.0	28.6	78	1263.160	3.0	1.0	44.309
OBSERVATIONS:	12	11	11			12	12			12	12	
EXCEEDANCES											5	
NO OF SAMPLES		20	19			43	43			132	132	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 50%
SS - YES	SS - 70%
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER CONSTRUCTION	85/06/01	85/06/07	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CORNWALL
PLANT : LONG SAULT WPCP
WORKS NUMBER : 120000131
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 1300

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.968	110.0	40.0		38.720	98.0	41.0		39.688	4.8	3.9	3.775
FEB	0.658	60.0	51.0		33.558	79.0	19.0		12.502	6.2	4.3	2.836
MAR	1.276	82.0	27.5		35.090	48.0	34.5		44.022	4.1	3.1	3.968
APR	0.965	35.0	26.0		25.090	69.0	21.0		20.265	2.6	2.4	2.316
MAY	0.827	20.0	12.0		9.924	41.0	18.0		14.886	3.3	3.0	2.473
JUN	0.653	65.0	7.9		5.159	82.0	15.1		9.860	4.4	2.8	1.855
JUL	1.063	80.0	3.6		3.827	121.0	9.2		9.780	5.6	2.7	2.891
AUG	0.834	42.0	12.0		10.008	42.0	14.0		11.676	2.2	1.4	1.193
SEP	0.820	185.0	7.2		5.904	271.0	8.0		6.560	7.0	3.2	2.640
OCT	0.965	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.332	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	1.900	56.0	3.0		5.700	82.0	9.6		18.240	4.4	2.9	5.434
AVERAGE:	1.022	74.0	19.0		17.298	93.0	18.9		18.748	4.5	3.0	2.938
OBSERVATIONS:	12	10	10			10	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DEEP RIVER
PLANT : DEEP RIVER WPCP
WORKS NUMBER : 120000612
TREATMENT : PRIMARY

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.18 1000 m3
POPULATION SERVED : 4230

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.531	310.0	98.0	68	150.038	608.0	46.0	92	70.426	18.0	5.8	8.880
FEB	1.445	ND	ND	0	ND	141.0	24.0	83	34.680	8.8	4.2	6.069
MAR	2.045	80.0	49.0	39	100.205	135.0	38.0	72	77.710	6.6	4.3	8.691
APR	1.495	ND	ND	0	ND	190.0	43.0	77	64.285	9.1	3.8	5.696
MAY	1.836	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	1.536	90.0	55.0	39	84.480	95.0	46.0	52	70.656	22.3	3.8	5.852
JUL	1.691	60.0	52.0	13	87.932	72.0	80.0	0	135.280	4.5	4.6	7.694
AUG	4.909	88.0	19.0	78	93.271	86.0	29.0	66	142.361	5.8	3.5	16.936
SEP	1.486	54.0	32.0	41	47.552	108.0	50.0	54	74.300	4.9	4.1	6.018
OCT	1.659	72.0	38.0	47	63.042	80.0	27.0	66	44.793	6.0	4.4	7.217
NOV	1.572	115.0	50.0	57	78.600	96.0	63.0	34	99.036	5.6	3.8	6.021
DEC	1.895	80.0	44.0	45	83.380	98.0	44.0	55	83.380	7.9	3.6	6.746
AVERAGE:	1.925	105.0	48.6	47	87.611	155.0	44.5	65	81.537	9.0	4.2	7.802
OBSERVATIONS:12		9	9			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		9	9			11	11			10	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DELORO
PLANT : DELORO WPCP
WORKS NUMBER : 120000970
TREATMENT : COMMUNAL SEPTIC TANK

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MOIRA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.38 1000 m3
POPULATION SERVED : 231

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	102.0	142.0	0	ND	110.0	110.0	0	ND	6.2	5.8	ND
FEB	ND	110.0	134.0	0	ND	144.0	82.0	43	ND	36.0	6.3	ND
MAR	ND	36.0	75.5	0	ND	69.0	44.0	36	ND	2.8	3.7	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ND	28.0	25.0	11	ND	34.0	18.0	47	ND	4.7	2.5	ND
JUN	ND	56.0	123.0	0	ND	64.0	53.0	17	ND	5.9	6.4	ND
JUL	ND	176.0	112.0	36	ND	122.0	66.0	46	ND	5.3	6.7	ND
AUG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	ND	105.0	88.0	16	ND	134.0	95.5	29	ND	6.9	7.0	ND
OCT	ND	120.0	60.0	50	ND	109.0	83.0	24	ND	9.7	6.8	ND
NOV	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	ND	40.0	9.0	78	ND	42.0	9.6	77	ND	2.5	1.7	ND
AVERAGE:	0.000	86.0	85.4	38	0.000	92.0	62.3	40 *	0.000	8.9	5.2	0.000
OBSERVATIONS:	0	9	9			9	9			9	9	
EXCEEDANCES												
NO OF SAMPLES		13	12			13	12			13	12	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CONSTRUCTION COMPLETED		87/12/31	89/12/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	88/07/01	88/12/31	
SEWER SEPARATION UNDERWAY	89/07/01	89/07/31	
SEWER REPAIR UNDERWAY	89/07/01	89/07/31	
SEWER REPLACEMENT UNDERWAY	89/07/01	89/07/31	
FACILITY OPERATIONAL		1987	1989

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DESERONTO
PLANT : DESERONTO WPCP
WORKS NUMBER : 110000980
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 1732

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BAY OF QUINTE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.335	170.0	2.5		3.337	136.0	7.9		10.546	5.5	0.5	0.601
FEB	1.180	118.0	2.8		3.304	118.0	7.6		8.968	4.3	0.4	0.437
MAR	1.678	109.0	5.0		8.390	98.0	10.2		17.116	3.6	0.5	0.755
APR	1.690	104.0	9.0		15.210	78.0	62.0		104.780	2.8	0.6	0.946
MAY	1.111	136.0	7.1		7.888	128.0	6.6		7.333	2.7	0.5	0.533
JUN	1.116	129.0	5.0		5.580	69.0	3.7		4.129	1.7	0.3	0.324
JUL	1.186	213.0	9.4		11.148	48.0	5.5		6.523	1.6	0.5	0.546
AUG	1.182	69.0	1.4		1.655	91.0	2.5		2.955	1.8	0.4	0.496
SEP	1.296	102.0	5.0		6.480	86.0	3.2		4.147	2.2	0.5	0.596
OCT	1.320	128.0	5.2		6.864	104.0	10.0		13.200	3.3	0.4	0.554
NOV	1.516	108.0	7.0		10.612	81.0	10.4		15.766	1.5	0.3	0.394
DEC	1.837	75.0	9.3		17.084	49.0	9.0		16.533	1.0	0.4	0.680
AVERAGE:	1.371	122.0	5.7		8.129	90.0	11.5		17.666	2.7	0.4	0.572
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		31	31			150	141			111	110	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAST HAWKESBURY
PLANT : CHUTE A BLONDEAU WPCP IN OP. 1987
WORKS NUMBER : 110003399
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE :
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION :

DESIGN CAPACITY : 0.10 1000 m3
POPULATION SERVED : 165

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	76.0		ND	6.8	ND	ND
MAR	ND	56.0	59.5		ND	288.0	55.9		ND	8.8	7.3	ND
APR	ND	106.0	60.8		ND	273.0	56.4		ND	ND	ND	ND
MAY	ND	257.0	13.0		ND	315.0	106.6		ND	7.9	5.0	ND
JUN	ND	92.0	18.0		ND	197.0	41.6		ND	ND	ND	ND
JUL	0.032	83.0	12.6		0.403	148.0	26.1		0.835	8.5	6.5	0.207
AUG	0.015	169.0	5.7		0.085	212.0	16.5		0.247	5.3	4.9	0.073
SEP	0.042	89.0	7.1		0.298	222.0	12.0		0.504	8.0	5.0	0.210
OCT	0.069	107.0	14.0		0.966	403.0	9.0		0.621	10.8	6.7	0.459
NOV	0.072	92.0	12.0		0.864	109.0	8.0		0.576	7.7	5.7	0.410
DEC	0.080	70.0	9.5		0.760	101.0	11.0		0.880	6.6	7.0	0.556
AVERAGE:	0.052	112.0	21.2		0.563	227.0	38.1 *		0.611	7.8	6.0	0.319
OBSERVATIONS:	6	10	10			10	11			9	8	
EXCEEDANCES												
NO OF SAMPLES		38	38			57	58			26	27	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: EGANVILLE	REGION	: SOUTHEAST
PLANT	: EGANVILLE WPCP	DISTRICT	: OTTAWA
WORKS NUMBER	: 110000141	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: BONNECHERE RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: OTTAWA RIVER
DESIGN CAPACITY	: 0.76 1000 m3	IJC DESIGNATION	: NON IJC
POPULATION SERVED	: 1219		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.501	150.0	2.3		1.152	163.0	17.0		8.517	6.3	0.7	0.351
FEB	0.479	143.0	9.5		4.550	130.0	6.6		3.161	5.7	0.5	0.239
MAR	0.654	111.0	2.1		1.373	112.0	4.0		2.616	5.1	0.5	0.327
APR	0.989	81.0	3.7		3.659	132.0	14.0		13.846	4.7	0.4	0.396
MAY	0.664	68.0	3.0		1.992	86.0	8.0		5.312	4.9	0.5	0.332
JUN	0.654	107.0	1.4		0.916	143.0	12.2		7.979	4.8	0.7	0.458
JUL	0.547	71.0	2.5		1.368	128.0	8.9		4.868	5.7	0.8	0.438
AUG	0.521	84.0	1.5		0.782	297.0	13.3		6.929	5.5	0.9	0.469
SEP	0.550	54.0	1.0		0.550	136.0	8.7		4.785	6.0	0.8	0.440
OCT	0.570	155.0	1.7		0.969	193.0	6.2		3.534	6.5	0.6	0.342
NOV	0.581	99.0	2.2		1.278	96.0	8.8		5.113	5.5	0.5	0.290
DEC	0.618	122.0	3.9		2.410	289.0	13.0		8.034	5.5	0.7	0.433
AVERAGE:	0.611	104.0	2.9		1.750	159.0	10.1		6.225	5.5	0.6	0.376
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			41	41			172	192	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ERNESTOWN
PLANT : AMHERSTVIEW LAGOON
WORKS NUMBER : 110000196
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : COLLINS CR. N.CHANNEL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 2.39 1000 m3
POPULATION SERVED : 6900

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	3.010	116.0	10.0		30.100	88.0	22.0		66.220	5.8	4.1	12.341
FEB	3.100	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	4.500	78.0	19.0		85.500	68.0	14.0		63.000	5.0	3.6	16.200
APR	4.400	68.0	18.0		79.200	72.0	52.0		228.800	4.2	3.5	15.400
MAY	3.000	80.0	17.0		51.000	89.0	61.7		185.100	5.3	2.5	7.500
JUN	2.807	71.0	17.6		49.403	107.0	90.3		253.472	5.1	2.0	5.614
JUL	2.880	70.0	22.0		63.360	92.0	77.0		221.760	5.5	2.3	6.624
AUG	3.250	82.0	25.0		81.250	153.0	92.3		299.975	5.9	2.6	8.450
SEP	4.400	69.0	18.7		82.280	86.0	76.3		335.720	4.1	3.1	13.640
OCT	3.270	67.0	22.0		71.940	61.0	55.5		181.485	4.4	3.0	9.810
NOV	3.270	76.0	25.7		84.039	200.0	74.0		241.980	4.7	3.1	10.137
DEC	3.260	108.0	35.5		115.730	124.0	50.0		163.000	6.0	3.4	11.084
AVERAGE:	3.429	80.0	21.0		72.164	104.0	60.5 *		203.683	5.1	3.0	10.618
OBSERVATIONS:	12	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	25	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
AESTHETIC PROBLEM ONLY - NO ACTION PLANNED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: ERNESTOWN
PLANT	: ODESSA WPCP
WORKS NUMBER	: 110002041
TREATMENT	: EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY	: 0.90 1000 m3
POPULATION SERVED	: 973

REGION	: SOUTHEAST
DISTRICT	: KINGSTON
OPERATING AUTHORITY	: MINISTRY
WATERCOURSE	: MILLHAVEN CREEK
MAJOR BASIN	: GREAT LAKES
MINOR BASIN	: LAKE ONTARIO
IJC DESIGNATION	: INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.770	74.0	6.9		5.313	64.0	16.7		12.859	4.1	1.0	0.731
FEB	0.620	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	1.540	20.0	7.0		10.780	21.0	17.0		26.180	1.9	0.8	1.186
APR	1.560	36.0	1.7		2.652	33.0	11.8		18.408	2.4	0.5	0.780
MAY	0.700	59.0	3.0		2.100	62.0	11.7		8.190	3.5	0.6	0.420
JUN	0.701	36.0	4.1		2.874	72.0	10.5		7.360	3.1	0.8	0.582
JUL	0.660	50.0	0.8		0.528	66.0	5.2		3.432	4.6	0.8	0.502
AUG	0.630	45.0	1.4		0.882	80.0	6.3		3.969	3.9	0.9	0.592
SEP	0.920	30.0	1.1		1.012	90.0	8.8		8.096	3.1	0.8	0.736
OCT	1.050	47.0	1.9		1.995	57.0	10.0		10.500	3.5	0.7	0.777
NOV	1.650	33.0	2.4		3.960	37.0	14.0		23.100	2.3	0.9	1.402
DEC	1.990	62.0	3.0		5.970	55.0	20.5		40.795	ND	0.6	1.214
AVERAGE:	1.066	45.0	3.0		3.461	58.0	12.0		14.808	3.2	0.8	0.811
OBSERVATIONS:12		11	11			11	11			10	11	
EXCEEDANCES												
NO OF SAMPLES		28	28			29	29			31	35	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FRANKFORD
PLANT : FRANKFORD WPCP
WORKS NUMBER : 110000267
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 1970

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRENT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.340	141.0	13.6		18.224	84.0	19.1		25.594	4.3	0.5	0.670
FEB	1.010	160.0	14.0		14.140	77.0	18.0		18.180	4.2	0.5	0.505
MAR	1.760	55.0	14.0		24.640	70.0	13.0		22.880	3.7	0.5	0.880
APR	1.950	115.0	20.0		39.000	65.0	37.0		72.150	4.0	1.0	1.950
MAY	1.300	179.0	29.0		37.700	110.0	41.6		54.080	5.0	0.9	1.170
JUN	0.760	136.0	22.5		17.100	98.0	15.6		11.856	5.1	0.6	0.456
JUL	0.670	165.0	16.7		11.189	69.0	11.3		7.571	5.1	0.5	0.335
AUG	0.640	193.0	2.7		1.728	83.0	11.5		7.360	4.6	0.4	0.256
SEP	0.740	98.0	12.3		9.102	151.0	12.2		9.028	5.6	0.5	0.370
OCT	0.840	265.0	8.9		7.476	138.0	8.2		6.888	5.3	0.7	0.588
NOV	0.970	167.0	11.6		11.252	111.0	13.5		13.095	4.9	0.5	0.485
DEC	1.490	305.0	19.0		28.310	69.0	19.4		28.906	4.1	0.6	0.894
AVERAGE:	1.123	165.0	15.4		18.322	94.0	18.4		23.132	4.7	0.6	0.713
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		46	44			88	85			81	81	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GANANOQUE
PLANT : GANANOQUE LAGOON
WORKS NUMBER : 110000285
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 3.27 1000 m3
POPULATION SERVED : 4900

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : STOCKING CR GANANOQUE R
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.300	44.0	4.8			96.0	26.0			10.0	1.9	
FEB	4.100	66.0	7.0			89.0	28.0			5.2	2.1	
MAR	5.700	46.0	10.0			68.0	33.0			3.5	2.7	
APR	4.700	32.0	5.0			74.0	10.0			2.8	1.8	
MAY	3.800	ND	11.9			ND	1.8			ND	1.8	
JUN	3.600	42.0	ND			71.0	ND			3.1	ND	
JUL	3.720	ND	ND			ND	ND			ND	ND	
AUG	6.405	62.0	ND			144.0	ND			6.1	ND	
SEP	6.847	36.0	12.0			12.0	32.0			3.4	2.8	
OCT	7.081	52.0	2.4			139.0	4.0			5.5	3.1	
NOV	8.773	56.0	3.6			206.0	5.6			4.2	2.9	
DEC	10.910	43.0	4.6			72.0	10.3			2.7	2.3	
AVERAGE:	5.828	48.0	6.8		39.554	97.0	16.7		97.497	4.7	2.4	15.459
OBSERVATIONS:12		10	9			10	9			10	9	
EXCEEDANCES												
NO OF SAMPLES		11	33			10	33			11	33	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/01/01	90/12/31	
SEWER SEPARATION UNDERWAY	75/01/01	95/01/31	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	1987	1990	1995

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GLOUCESTER
PLANT : GREEN CREEK WPCP
WORKS NUMBER : 120000729
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 363.68 1000 m3
POPULATION SERVED : 450000

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	364.000	81.0	33.0	59	12012.000	81.0	29.0	64	10556.000	3.5	1.3 *	455.000
FEB	342.000	85.0	43.0	49	14706.000	81.0	33.0	59	11286.000	3.5	1.7 *	577.980
MAR	449.000	68.0	34.0	50	15266.000	61.0	28.0	54	12572.000	2.4	1.0	453.490
APR	431.000	64.0	29.0	55	12499.000	84.0	30.0	64	12930.000	3.2	1.0	439.620
MAY	386.000	79.0	42.0	47	16212.000	97.0	36.0	63	13896.000	3.7	2.3 *	895.520
JUN	389.000	92.0	34.0	63	13226.000	89.0	29.0	67	11281.000	3.1	2.2 *	863.580
JUL	420.000	76.0	31.0	59	13020.000	77.0	ND	100	ND	2.9	2.5 *	1033.200
AUG	392.000	69.0	37.0	46	14504.000	80.0	30.0	62	11760.000	3.3	2.8 *	1101.520
SEP	410.000	64.0	31.0	52	12710.000	88.0	32.0	64	13120.000	3.3	2.8 *	1156.200
OCT	379.000	87.0	41.0	53	15539.000	107.0	33.0	69	12507.000	4.2	3.3 *	1250.700
NOV	403.000	84.0	41.0	51	16523.000	108.0	42.0	61	16926.000	3.5	3.1 *	1237.210
DEC	438.000	73.0	46.0	37	20148.000	95.0	36.0	62	15768.000	5.3	2.6 *	1125.660
AVERAGE:	400.250	77.0	36.8	52	14697.083	87.0	32.5	66	*12963.818	3.5	2.2 *	882.473
OBSERVATIONS:	12	12	12			12	11			12	12	
EXCEEDANCES											10	
NO OF SAMPLES		103	105			222	200			180	182	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 50%
SS - NO	SS - 70%
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/01/01	89/12/31	90/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GOULBOURN
PLANT : MUNSTER LAGOON
WORKS NUMBER : 120001522
TREATMENT : LAGOON AND SPRAY
SEASONAL DISCHARGE

DESIGN CAPACITY : 0.36 1000 m3
POPULATION SERVED : 1300

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	23.0	27.0			29.0	6.0			2.6	1.7	
JUN	ND	37.0	19.0			42.0	13.0			2.3	1.9	
JUL	ND	33.0	15.0			60.0	62.0			3.3	2.3	
AUG	ND	137.0	17.0			758.0	24.0			6.7	2.0	
SEP	ND	27.0	7.0			71.0	120.0			3.6	2.7	
OCT	ND	25.0	12.0			44.0	24.0			2.6	1.8	
NOV	ND	50.0	28.0			57.0	42.0			2.8	2.2	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	47.0	17.9		0.000	152.0	41.5 *		0.000	3.4	2.1	0.000
OBSERVATIONS:	0	7	7			7	7			7	7	
EXCEEDANCES												
NO OF SAMPLES		7	7			7	7			7	7	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAGARTY & RICHARDS
PLANT : KILLALOE STN.WPCP
WORKS NUMBER : 110001532
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.51 1000 m3
POPULATION SERVED : 670

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BRUDENELL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.217	122.0	3.2		0.694	205.0	5.6		1.215	8.7	0.7	0.152
FEB	0.190	205.0	2.2		0.418	201.0	6.7		1.273	10.3	0.8	0.144
MAR	0.310	76.0	3.5		1.085	168.0	10.6		3.286	7.7	0.8	0.242
APR	0.524	98.0	4.1		2.148	155.0	7.5		3.930	6.7	0.8	0.403
MAY	0.385	61.0	1.5		0.578	174.0	7.0		2.695	6.0	0.7	0.269
JUN	0.316	89.0	1.1		0.348	190.0	9.2		2.907	5.5	0.5	0.158
JUL	0.209	69.0	0.8		0.167	183.0	7.4		1.547	5.8	0.5	0.098
AUG	0.166	156.0	0.9		0.149	263.0	6.3		1.046	6.1	0.4	0.066
SEP	0.155	125.0	1.7		0.264	264.0	6.2		0.961	7.3	0.5	0.079
OCT	0.202	101.0	2.2		0.444	230.0	9.5		1.919	6.8	0.6	0.111
NOV	0.256	115.0	2.3		0.589	177.0	6.3		1.613	7.3	0.8	0.195
DEC	0.345	63.0	2.6		0.897	221.0	8.0		2.760	6.8	0.8	0.290
AVERAGE:	0.273	107.0	2.2		0.648	203.0	7.5		2.096	7.1	0.6	0.184
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			70	70			71	71	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAWKESBURY
PLANT : HAWKESBURY WPCP
WORKS NUMBER : 110002283
TREATMENT : MODIFIED ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 12.27 1000 m3
POPULATION SERVED : 9680

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	9.169	47.0	9.0		82.521	58.0	14.0		128.366	3.0	0.9	8.252
FEB	8.997	84.0	50.0		449.850	38.0	10.4		93.569	3.5	1.7 *	15.565
MAR	13.639	62.0	12.0		163.668	48.0	6.0		81.834	4.3	0.8	10.911
APR	12.012	80.0	8.0		96.096	72.0	14.4		172.973	3.6	0.9	10.210
MAY	9.315	119.0	43.3		403.339	94.0	7.8		72.657	4.1	0.7	6.614
JUN	10.258	66.0	8.0		82.064	74.0	9.0		92.322	3.5	0.5	5.129
JUL	8.923	102.0	8.8		78.522	61.0	7.0		62.461	3.4	0.1	1.249
AUG	8.929	66.0	7.6		67.860	62.0	9.9		88.397	3.3	0.2	2.143
SEP	10.862	83.0	9.0		97.758	101.0	10.8		117.310	3.6	0.2	2.607
OCT	10.062	57.0	5.3		53.329	86.0	11.5		115.713	2.8	0.3	3.421
NOV	10.740	55.0	6.9		74.106	58.0	9.0		96.660	3.3	0.2	1.611
DEC	11.316	34.0	4.0		45.264	64.0	13.0		147.108	2.8	0.1	0.566
AVERAGE:	10.352	71.0	14.3		141.198	68.0	10.2		105.781	3.4	0.6	5.690
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		77	64			88	68			87	73	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : IROQUOIS
PLANT : IROQUOIS WPCP
WORKS NUMBER : 120000159
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.00 1000 m3
POPULATION SERVED : 1212

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.891	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	4.082	40.0	18.0	55	73.476	252.0	74.0	71	302.068	2.7	1.4 *	5.796
MAR	3.911	40.0	18.0	55	70.398	252.0	74.0	71	289.414	2.7	1.4 *	5.554
APR	4.142	32.0	21.0	34	86.982	192.0	58.0	70	240.236	3.8	0.8	3.231
MAY	4.100	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	4.532	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	4.460	24.0	16.0	33	71.360	211.0	42.0	80	187.320	2.4	0.9	3.880
AUG	4.990	64.0	28.0	56	139.720	106.0	37.0	65	184.630	2.6	1.7 *	8.583
SEP	5.107	34.0	11.0	68	56.177	180.0	42.0	77	214.494	2.5	1.1 *	5.516
OCT	4.710	25.0	22.7	9	106.917	163.0	136.7	16	643.857	2.4	2.3 *	10.880
NOV	4.410	46.0	21.4	53	94.374	116.0	80.0	31	352.800	2.1	1.6 *	6.836
DEC	4.602	35.0	22.5	36	103.545	111.0	84.5	24	388.869	1.5	1.2 *	5.568
AVERAGE:	4.411	38.0	19.8	44 *	89.217	176.0	69.8	56 *	311.521	2.5	1.4 *	6.205
OBSERVATIONS:12		9	9			9	9			9	9	
EXCEEDANCES											7	
NO OF SAMPLES		16	16			16	16			16	16	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 50%
SS - NO	SS - 70%
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATION AND/OR MAINENANCE PROCEDURES BEING IMPLEMENTED	88/04/01		
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	88/04/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KEMPTVILLE
PLANT : KEMPTVILLE WPCP (TERTIARY PROPSED)
WORKS NUMBER : 120000113
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.27 1000 m3
POPULATION SERVED : 2400

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPTVILLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	(1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.710	60.0	32.0	47	54.720	37.0	14.0	62	23.940	3.2	1.7 *	2.907
FEB	1.100	185.0	45.0	76	49.500	102.0	24.0	76	26.400	5.7	2.7 *	2.970
MAR	2.440	80.0	34.0	58	82.960	83.0	33.0	60	80.520	6.0	3.2 *	7.710
APR	3.514	20.0	7.0	65	24.598	19.0	8.0	58	28.112	1.8	0.7	2.390
MAY	1.880	46.0	15.0	67	28.200	51.0	17.0	67	31.960	3.9	1.6 *	3.064
JUN	1.632	70.0	15.0	79	24.480	104.0	21.0	80	34.272	4.2	11.2 *	18.246
JUL	1.378	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	0.924	44.0	17.0	61	15.708	96.0	33.0	66	30.492	4.7	3.0 *	2.726
SEP	1.401	74.0	24.0	68	33.624	150.0	42.0	72	58.842	6.7	3.7 *	5.226
OCT	1.414	60.0	28.0	53	39.592	64.0	22.0	66	31.108	4.2	2.2 *	3.139
NOV	1.793	66.0	13.0	80	23.309	96.0	33.0	66	59.169	5.1	1.4 *	2.492
DEC	3.070	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERAGE:	1.855	70.0	23.0	65	37.669	80.0	24.7	67 *	40.481	4.6	3.1 *	5.087
OBSERVATIONS:	12	10	10			10	10			10	10	
EXCEEDANCES											9	
NO OF SAMPLES		10	10			10	10			10	10	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENVIRONMENTAL ASSESSMENT PROCESS	86/01/01	94/12/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: KINGSTON	REGION	: SOUTHEAST
PLANT	: KINGSTON WPCP (CITY)	DISTRICT	: KINGSTON
WORKS NUMBER	: 120001050	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: PRIMARY PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: ST.LAWRENCE RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: ST. LAWRENCE RIVER
DESIGN CAPACITY	: 61.37 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 67000		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	61.180	91.0	20.0	78	1223.600	112.0	16.0	86	978.880	4.1	0.6	36.708
FEB	58.481	113.0	20.0	82	1169.620	82.0	15.0	82	877.215	5.0	0.6	35.673
MAR	82.425	83.0	23.0	72	1895.775	76.0	12.0	84	989.100	4.4	0.6	51.928
APR	80.631	83.0	17.0	80	1370.727	91.0	13.0	86	1048.203	2.8	0.4	33.865
MAY	54.950	71.0	22.0	69	1208.900	54.0	17.0	69	934.150	3.5	0.5	28.025
JUN	60.204	56.0	13.5	76	812.754	67.0	14.5	78	872.958	3.6	0.5	32.510
JUL	55.210	32.0	15.0	53	828.150	50.0	16.0	68	883.360	2.7	0.6	35.334
AUG	47.630	43.0	14.0	67	666.820	59.0	19.0	68	904.970	2.6	0.8	38.580
SEP	57.910	80.0	24.0	70	1389.840	94.0	30.0	68	1737.300	3.9	0.7	37.642
OCT	57.720	69.0	18.0	74	1038.960	116.0	14.0	88	808.080	4.0	0.4	25.397
NOV	71.402	50.0	14.0	72	999.628	77.0	17.0	78	1213.834	3.2	0.4	29.989
DEC	74.026	62.0	17.0	73	1258.442	66.0	15.0	77	1110.390	2.7	0.6	41.455
AVERAGE:	63.481	69.0	18.1	72	1155.268	79.0	16.5	78	1029.870	3.5	0.6	35.592
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		47	51			48	52			48	52	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 50%
SS - YES	SS - 70%
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/01/01	88/12/31	
SEWER SEPARATION UNDERWAY	80/01/01		
ENGINEERING STUDY PHASE	1987	88/05/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KINGSTON
PLANT : KINGSTON WPCP (TOWNSHIP)
WORKS NUMBER : 110000365
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 25.00 1000 m3
POPULATION SERVED : 28000

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	15.207	227.0	13.8		209.857	159.0	7.4		112.532	5.5	0.9	13.990
FEB	15.233	144.0	14.3		217.832	111.0	8.2		124.911	4.9	0.9	13.710
MAR	21.836	205.0	7.0		152.852	107.0	18.0		393.048	5.8	0.9	18.997
APR	21.383	159.0	9.6		205.277	116.0	15.0		320.745	4.5	0.7	14.754
MAY	15.306	265.0	3.6		55.102	320.0	4.0		61.224	6.5	0.6	9.490
JUN	15.886	235.0	4.5		71.487	176.0	5.4		85.784	5.2	0.7	11.279
JUL	15.146	308.0	6.5		98.449	245.0	6.0		90.876	4.8	1.0	14.540
AUG	15.142	218.0	4.3		65.111	169.0	4.5		68.139	5.9	1.0	14.991
SEP	18.291	209.0	4.0		73.164	178.0	7.5		137.183	4.4	0.6	11.523
OCT	17.670	194.0	6.2		109.554	181.0	8.5		150.195	5.4	0.5	8.305
NOV	22.185	76.0	7.9		175.261	95.0	7.3		161.950	3.8	0.8	16.861
DEC	23.107	110.0	8.2		189.477	152.0	5.4		124.778	4.6	0.5	11.322
AVERAGE:	18.033	196.0	7.5		135.285	167.0	8.1		152.614	5.1	0.8	13.313
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		56	55			57	59			113	117	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : L'ORIGNAL
PLANT : L'ORIGNAL WPCP
WORKS NUMBER : 110001701
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 1523

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.498	69.0	12.6		6.275	49.0	12.0		5.976	5.9	3.2	1.594
FEB	0.510	99.0	37.6		19.176	106.0	20.1		10.251	5.9	5.8	2.978
MAR	0.913	74.0	31.2		28.486	90.0	40.2		36.703	5.3	3.8	3.488
APR	0.739	88.0	41.3		30.521	46.0	25.0		18.475	ND	ND	ND
MAY	0.611	26.0	13.0		7.943	69.0	26.0		15.886	4.0	3.9	2.371
JUN	0.745	95.0	37.0		27.565	60.0	44.0		32.780	6.7	4.7	3.502
JUL	0.623	91.0	17.6		10.965	90.0	54.4		33.891	6.2	4.3	2.698
AUG	0.624	96.0	21.3		13.291	82.0	51.7		32.261	5.5	4.5	2.783
SEP	0.741	85.0	28.5		21.119	154.0	91.7		67.950	6.3	5.9	4.394
OCT	0.772	32.0	63.0		48.636	56.0	10.0		7.720	3.3	3.2	2.470
NOV	0.876	64.0	11.0		9.636	50.0	9.0		7.884	3.9	2.7	2.365
DEC	0.921	51.0	4.5		4.144	53.0	6.5		5.987	2.9	3.0	2.717
AVERAGE:	0.714	72.0	26.6 *		18.980	75.0	32.6 *		22.980	5.1	4.1	2.851
OBSERVATIONS:	12	12	12			12	12			11	11	
EXCEEDANCES												
NO OF SAMPLES		45	44			56	58			48	49	

COMPLIANCE :

BOD - NO
SS - NO
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			88/01/31
COLLECTION SYSTEM INPUT MONITORING	87/06/01	88/03/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LANCASTER
PLANT : LANCASTER LAGOON
WORKS NUMBER : 110001925
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FINNEY CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.59 1000 m3
POPULATION SERVED : 600

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.378	101.0	ND			126.0	ND			6.8	ND	
FEB	0.291	86.0	ND			202.0	ND			7.2	ND	
MAR	0.624	88.0	ND			95.0	ND			17.7	ND	
APR	0.974	67.0	ND			98.0	ND			4.8	ND	
MAY	0.875	72.0	4.4			178.0	22.0			5.7	0.9	
JUN	0.985	96.0	ND			195.0	ND			7.0	ND	
JUL	0.405	88.0	ND			120.0	ND			5.6	ND	
AUG	0.296	85.0	ND			164.0	ND			6.1	ND	
SEP	0.365	88.0	ND			105.0	ND			5.2	ND	
OCT	0.308	82.0	ND			116.0	ND			5.1	ND	
NOV	0.417	71.0	5.0			88.0	21.1			4.6	1.4	
DEC	0.620	42.0	ND			78.0	ND			6.0	ND	
AVERAGE:	0.545	80.0	4.7		2.968	130.0	21.6		14.024	6.8	1.1	0.668
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		51	1			60	1			54	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LEEDS & LANSDOWNE FRONT
PLANT : LANSDOWNE LAGOON
WORKS NUMBER : 110001934
TREATMENT : LAGOON AND SPRAY

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.33 1000 m3
POPULATION SERVED : 550

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.168	62.0	ND		ND	48.0	ND		ND	6.9	ND	ND
FEB	0.153	134.0	ND		ND	161.0	ND		ND	8.0	ND	ND
MAR	0.243	40.0	ND		ND	31.0	ND		ND	4.0	ND	ND
APR	0.205	81.0	ND		ND	64.0	ND		ND	5.1	ND	ND
MAY	0.158	46.0	ND		ND	36.0	ND		ND	5.1	ND	ND
JUN	0.169	51.0	ND		ND	50.0	ND		ND	4.0	ND	ND
JUL	0.164	60.0	ND		ND	51.0	ND		ND	5.7	ND	ND
AUG	0.146	63.0	2.6		0.380	63.0	14.0		2.044	5.9	1.7	0.242
SEP	0.190	49.0	2.4		0.456	41.0	10.0		1.900	5.8	2.2	0.412
OCT	0.178	63.0	ND		ND	72.0	ND		ND	6.0	ND	ND
NOV	0.236	32.0	ND		ND	29.0	ND		ND	3.9	ND	ND
DEC	0.290	72.0	ND		ND	82.0	ND		ND	4.5	ND	ND
AVERAGE:	0.192	63.0	2.5		0.418	61.0	12.0		1.972	5.4	1.9	0.327
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		23	2			29	2			23	2	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MADOC
PLANT : MADOC LAGOON
WORKS NUMBER : 110001051
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 850

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DEER CREEK TO MOIRA LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.453	ND	ND			ND	ND			ND	ND	
FEB	0.545	75.0	ND			135.0	ND			4.0	ND	
MAR	1.045	123.0	ND			175.0	ND			6.2	ND	
APR	1.589	ND	7.1			ND	12.9			ND	0.3	
MAY	0.400	110.0	4.9			109.0	10.5			6.2	0.4	
JUN	0.431	127.0	ND			229.0	ND			8.1	ND	
JUL	0.553	142.0	ND			96.0	ND			7.7	ND	
AUG	0.416	96.0	ND			14.0	ND			6.6	ND	
SEP	0.569	106.0	ND			104.0	ND			4.8	ND	
OCT	0.569	28.0	ND			27.0	ND			2.3	ND	
NOV	0.564	60.0	8.0			57.0	34.3			2.6	0.4	
DEC	0.985	20.0	2.4			23.0	8.0			1.2	0.2	
AVERAGE:	0.677	89.0	5.6		5.030	97.0	16.4		12.981	5.0	0.3	0.268
OBSERVATIONS:12		10	4			10	4			10	4	
EXCEEDANCES												
NO OF SAMPLES		12	21			12	21			12	21	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MARMORA
PLANT : MARMORA WPCP
WORKS NUMBER : 110001863
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.86 1000 m3
POPULATION SERVED : 1067

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CROWE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.543	175.0	4.0		2.172	129.0	51.0		27.693	4.4	0.3	0.179
FEB	0.467	155.0	5.0		2.335	180.0	5.0		2.335	5.1	0.3	0.145
MAR	0.905	68.0	4.5		4.072	84.0	14.0		12.670	4.1	0.3	0.253
APR	1.189	ND	ND		ND	ND	ND		ND	3.4	0.2	0.285
MAY	0.504	100.0	2.0		1.008	99.0	9.0		4.536	4.5	0.7	0.343
JUN	0.416	117.0	1.6		0.666	131.0	6.5		2.704	5.3	ND	ND
JUL	0.398	138.0	ND		ND	138.0	ND		ND	5.8	0.6	0.223
AUG	0.348	80.0	0.6		0.209	89.0	2.0		0.696	6.1	0.5	0.174
SEP	0.438	132.0	2.8		1.226	204.0	5.6		2.453	5.6	0.4	0.193
OCT	0.614	124.0	4.0		2.456	110.0	14.0		8.596	4.9	0.4	0.258
NOV	0.704	56.0	6.8		4.787	54.0	29.0		20.416	3.8	0.5	0.331
DEC	0.858	84.0	2.0		1.716	21.0	6.8		5.834	ND	0.3	0.266
AVERAGE:	0.615	112.0	3.3		2.065	113.0	14.3		8.793	4.8	0.4	0.241
OBSERVATIONS:	12	11	10			11	10			11	11	
EXCEEDANCES												
NO OF SAMPLES		13	12			13	12			116	117	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MERRICKVILLE
PLANT : MERRICKVILLE WPCP
WORKS NUMBER : 110001729
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.50 1000 m3
POPULATION SERVED : 817

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RIDEAU RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.321	126.0	12.8		4.109	82.0	15.0		4.815	5.4	0.5	0.170
FEB	0.248	94.0	5.0		1.240	94.0	13.7		3.398	6.1	0.6	0.151
MAR	0.659	56.0	11.0		7.249	63.0	21.3		14.037	4.0	0.8	0.540
APR	0.767	46.0	16.8		12.886	56.0	26.5		20.326	3.9	1.6 *	1.250
MAY	0.426	78.0	33.8		14.399	101.0	43.8		18.659	5.9	1.7 *	0.733
JUN	0.450	60.0	22.1		9.945	102.0	25.8		11.610	4.4	0.8	0.351
JUL	0.443	93.0	12.0		5.316	131.0	37.5		16.613	6.6	1.4 *	0.607
AUG	0.334	63.0	5.2		1.737	138.0	19.0		6.346	6.4	0.6	0.190
SEP	0.399	51.0	2.8		1.117	169.0	7.9		3.152	5.2	0.3	0.132
OCT	0.417	56.0	4.5		1.876	85.0	15.4		6.422	5.8	0.4	0.183
NOV	0.528	63.0	7.0		3.696	69.0	53.5		28.248	4.5	1.6 *	0.829
DEC	0.802	43.0	14.0		11.228	71.0	73.0		58.546	2.7	2.4 *	1.957
AVERAGE:	0.483	69.0	12.3		6.233	97.0	29.4 *		16.014	5.1	1.1 *	0.591
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											5	
NO OF SAMPLES		38	36			39	37			39	37	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	86/01/01	87/08/31	
COLLECTION SYSTEM INPUT MONITORING	88/05/01	88/12/31	89/12/31
CONDUCTING TREATABILITY STUDIES	88/10/01	89/04/30	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MORRISBURG
PLANT : MORRISBURG WPCP
WORKS NUMBER : 120000168
TREATMENT : PRIMARY
CONVENTIONAL LAGOON CONTINUOUS

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 2.27 1000 m3
POPULATION SERVED : 2337

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.698	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	2.282	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	3.258	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	3.749	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	2.814	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	2.775	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	2.607	190.0	13.0	93	33.891	127.0	12.0	91	31.284	3.4	1.4	3.624
AUG	2.730	19.0	9.8	48	26.754	29.0	10.0	66	27.300	1.4	0.9	2.430
SEP	2.571	28.0	24.0	14	61.704	48.0	50.0	0	128.550	2.4	3.8	9.873
OCT	2.760	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	2.811	10.0	6.0	40	16.866	6.0	7.6	0	21.364	0.9	0.8	2.136
DEC	3.365	10.0	14.0	0	47.110	20.0	36.0	0	121.140	0.9	0.8	2.793
AVERAGE:	2.868	51.0	13.4	49	37.265	46.0	23.1	78	65.928	1.8	1.5	4.171
OBSERVATIONS:12		5	5			5	5			5	5	
EXCEEDANCES												
NO OF SAMPLES		5	5			5	5			5	5	

COMPLIANCE :

BOD - INSUFFICIENT DATA
SS - INSUFFICIENT DATA
TP - INSUFFICIENT DATA

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CONSTRUCTION COMPLETED		89/10/31	89/12/31
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER	87/06/01	89/06/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NAPANEE
PLANT : NAPANEE WPCP
WORKS NUMBER : 120000186
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 7500

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NAPANEE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	10.000	135.0	5.6		56.000	116.0	12.0		120.000	9.0	1.1 *	11.000
FEB	10.000	114.0	9.3		93.000	82.0	13.5		135.000	9.1	1.0	10.000
MAR	10.000	51.0	17.4		174.000	55.0	59.8		598.000	5.4	3.1 *	31.100
APR	9.500	77.0	20.0		190.000	80.0	20.0		190.000	6.6	0.9	8.360
MAY	5.948	121.0	15.0		89.220	112.0	16.0		95.168	9.1	0.7	4.104
JUN	6.717	79.0	31.0		208.227	106.0	28.7		192.778	7.3	0.7	4.635
JUL	5.753	108.0	23.3		134.045	115.0	14.5		83.419	9.2	0.9	5.063
AUG	5.199	58.0	15.0		77.985	100.0	14.8		76.945	8.0	1.0	5.095
SEP	5.618	68.0	17.0		95.506	115.0	19.3		108.427	10.0	1.3 *	7.303
OCT	4.555	112.0	26.5		120.707	205.0	40.3		183.566	12.9	2.4 *	10.704
NOV	6.125	79.0	48.6		297.675	131.0	84.7		518.788	7.4	2.8 *	16.905
DEC	9.657	92.0	32.3		311.921	126.0	23.3		225.008	5.9	1.5 *	14.389
AVERAGE:	7.423	91.0	21.8		154.024	112.0	28.9 *		210.592	8.3	1.4 *	10.722
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											6	
NO OF SAMPLES		42	44			43	46			43	46	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/02/01	88/06/30	
FUNDING UNDER REVIEW	88/02/01	88/06/30	
UNDER CONSTRUCTION	88/06/01	88/12/31	88/12/31
CONSTRUCTION COMPLETED	88/06/01	88/12/31	88/12/31
ENFORCING BY-LAWS	88/02/01	88/06/30	
UPGRADING COMPLETED	88/06/01	88/12/31	88/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NEPEAN
PLANT : CARLTON LODGE WPCP
WORKS NUMBER : 120003307
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RIDEAU RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.04 1000 m3
POPULATION SERVED : 170

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.108	83.0	5.0		0.540	110.0	15.0		1.620	5.3	3.6	0.384
FEB	0.114	106.0	6.0		0.684	75.0	49.0		5.586	7.6	5.5	0.630
MAR	0.118	91.0	10.0		1.180	105.0	20.0		2.360	5.2	2.2	0.264
APR	0.118	101.0	4.0		0.472	208.0	10.0		1.180	5.2	3.2	0.380
MAY	0.128	208.0	4.0		0.512	113.0	13.0		1.664	7.5	2.5	0.315
JUN	0.124	237.0	13.0		1.612	133.0	29.0		3.596	5.7	3.2	0.396
JUL	0.120	67.0	2.0		0.240	67.0	9.0		1.080	4.7	3.6	0.437
AUG	0.112	132.0	2.0		0.224	105.0	10.0		1.120	3.6	4.7	0.522
SEP	0.135	84.0	3.0		0.405	60.0	19.0		2.565	10.1	5.7	0.767
OCT	0.130	154.0	100.0		13.000	151.0	45.0		5.850	5.1	4.3	0.558
NOV	0.215	258.0	22.0		4.730	70.0	37.0		7.955	2.6	4.8	1.028
DEC	0.179	201.0	3.0		0.537	152.0	21.0		3.759	3.1	3.5	0.634
AVERAGE:	0.133	144.0	14.5		2.011	112.0	23.1		3.195	5.5	3.9	0.526
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		39	36			72	65			45	50	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NEPEAN
PLANT : WATTS CREEK WPCP
WORKS NUMBER : 120000701
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 29.54 1000 m3
POPULATION SERVED : 52500

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WATTS CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	22.700	121.0	9.0		204.300	143.0	11.0		249.700	4.6	0.9	20.430
FEB	20.400	111.0	9.0		183.600	142.0	12.0		244.800	5.1	1.0	20.196
MAR	43.900	59.0	8.0		351.200	84.0	9.0		395.100	3.1	0.7	30.730
APR	42.100	54.0	6.0		252.600	87.0	10.0		421.000	2.9	0.7	31.154
MAY	25.000	85.0	10.0		250.000	131.0	11.0		275.000	4.3	0.9	21.750
JUN	25.400	104.0	8.0		203.200	109.0	7.0		177.800	4.5	0.8	20.574
JUL	29.900	79.0	11.0		328.900	111.0	11.0		328.900	3.9	0.9	26.312
AUG	25.500	87.0	8.0		204.000	138.0	12.0		306.000	4.7	1.0	24.225
SEP	21.400	93.0	11.0		235.400	123.0	15.0		321.000	4.1	0.9	19.474
OCT	26.100	89.0	13.0		339.300	121.0	11.0		287.100	4.4	0.9	22.968
NOV	28.700	97.0	17.0		487.900	114.0	14.0		401.800	4.2	0.8	23.821
DEC	38.500	50.0	21.0		808.500	93.0	15.0		577.500	3.3	0.8	31.570
AVERAGE:	29.133	86.0	10.9		320.742	116.0	11.5		332.142	4.1	0.9	24.434
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		136	134			241	236			232	234	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : OSNABRUCK
PLANT : INGLESIDE WPCP
WORKS NUMBER : 120000140
TREATMENT : PRIMARY

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.57 1000 m3
POPULATION SERVED : 1500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	88.0	54.2	38	ND	79.0	48.4	39	ND	5.1	4.0	ND
FEB	ND	85.0	24.0	72	ND	53.0	21.0	60	ND	5.6	4.2	ND
MAR	2.232	54.0	50.0	7	111.600	63.0	40.0	37	89.280	3.7	3.1	6.986
APR	1.872	76.0	45.0	41	84.240	191.0	60.0	69	112.320	7.4	3.9	7.320
MAY	0.768	160.0	49.0	69	37.632	199.0	114.0	43	87.552	5.9	3.9	2.980
JUN	0.793	92.0	34.0	63	26.962	140.0	42.0	70	33.306	4.8	3.6	2.855
JUL	0.950	80.0	25.0	69	23.750	148.0	30.0	80	28.500	6.7	3.8	3.572
AUG	0.828	72.0	54.0	25	44.712	72.0	64.0	11	52.992	3.6	3.8	3.105
SEP	1.129	44.0	22.0	50	24.838	117.0	45.0	62	50.805	4.1	2.7	3.082
OCT	1.132	104.0	55.0	47	62.260	246.0	73.0	70	82.636	6.8	4.4	4.992
NOV	1.399	96.0	44.0	54	61.556	414.0	84.0	80	117.516	10.3	3.8	5.288
DEC	1.957	68.0	58.0	15	113.506	62.0	33.0	47	64.581	4.8	2.2	4.305
AVERAGE:	1.306	85.0	42.9	46	59.106	149.0	54.5	56	71.949	5.7	3.6	4.449
OBSERVATIONS:	10	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		15	16			15	16			15	16	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PEMBROKE
PLANT : PEMBROKE WPCP
WORKS NUMBER : 120000630
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 17000

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	13.236	ND	ND	0	ND	183.0	18.6	90	246.190	2.9	0.6	8.206
FEB	13.012	ND	ND	0	ND	182.0	17.4	90	226.409	3.3	0.5	6.116
MAR	13.578	65.0	ND	100	ND	175.0	17.6	90	238.973	2.5	0.7	8.826
APR	14.304	40.0	5.0	88	71.520	174.0	19.0	89	271.776	1.9	0.7	10.013
MAY	13.979	160.0	35.0	78	489.265	158.0	17.5	89	244.632	2.6	0.7	9.785
JUN	13.697	145.0	24.2	83	331.467	148.0	20.4	86	279.419	3.3	0.7	9.588
JUL	13.116	171.0	69.3	59	908.939	142.0	17.1	88	224.284	3.4	0.7	9.181
AUG	13.239	170.0	30.0	82	397.170	148.0	18.7	87	247.569	3.3	0.7	9.267
SEP	13.619	143.0	33.3	77	453.513	135.0	16.8	88	228.799	3.2	0.7	9.533
OCT	12.585	193.0	63.8	67	802.923	134.0	17.7	87	222.755	2.8	0.7	8.809
NOV	12.871	170.0	41.0	76	527.711	109.0	15.9	85	204.649	3.1	0.7	9.010
DEC	13.215	125.0	25.0	80	330.375	105.0	14.8	86	195.582	3.1	0.7	9.250
AVERAGE:	13.371	138.0	36.3	79	479.209	149.0	17.6	88	235.920	2.9	0.7	8.965
OBSERVATIONS:	12	10	9			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		32	31			730	730			730	735	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PERTH
PLANT : PERTH LAGOON
WORKS NUMBER : 120000881
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.90 1000 m3
POPULATION SERVED : 5648

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TAY RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	80.0	54.0		ND	75.0	18.0		ND	4.0	0.6	ND
FEB	ND	65.0	40.0		ND	89.0	18.0		ND	2.6	0.9	ND
MAR	ND	135.0	37.0		ND	76.0	12.0		ND	1.9	1.1 *	ND
APR	ND	38.0	6.0		ND	61.0	7.0		ND	2.6	0.4	ND
MAY	ND	48.0	8.0		ND	93.0	19.0		ND	3.1	0.7	ND
JUN	ND	60.0	15.0		ND	80.0	27.0		ND	2.3	0.9	ND
JUL	ND	350.0	6.0		ND	341.0	8.0		ND	4.8	0.3	ND
AUG	ND	122.0	4.8		ND	320.0	11.0		ND	2.6	0.2	ND
SEP	ND	64.0	6.8		ND	94.0	9.6		ND	2.5	0.6	ND
OCT	ND	58.0	11.0		ND	86.0	14.0		ND	2.9	0.8	ND
NOV	ND	60.0	7.2		ND	96.0	10.0		ND	2.2	0.4	ND
DEC	ND	36.0	8.0		ND	84.0	11.0		ND	2.1	0.4	ND
AVERAGE:	0.000	93.0	17.0		0.000	125.0	13.7		0.000	2.8	0.6	0.000
OBSERVATIONS:	0	12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NEW EQUIPMENT IS BEING INSTALLED	87/09/01	88/01/31	88/01/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PETAWAWA
PLANT : PETAWAWA WPCP
WORKS NUMBER : 120000587
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 11300

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.440	101.0	60.5	40	268.620	129.0	51.1	60	226.884	5.2	3.7 *	16.428
FEB	4.110	98.0	31.7	68	130.287	134.0	34.4	74	141.384	5.7	3.1 *	12.741
MAR	5.800	103.0	41.1	60	238.380	174.0	32.0	82	185.600	5.9	2.0 *	11.600
APR	4.980	65.0	29.0	55	144.420	152.0	12.3	92	61.254	4.3	0.7	3.486
MAY	5.300	126.0	38.4	70	203.520	158.0	12.5	92	66.250	4.5	0.7	3.710
JUN	4.410	106.0	12.0	89	52.920	142.0	11.9	92	52.479	5.8	0.7	2.955
JUL	4.540	133.0	43.6	67	197.944	168.0	29.9	82	135.746	4.3	0.8	3.405
AUG	4.820	102.0	32.0	69	154.240	151.0	15.3	90	73.746	5.0	0.7	3.374
SEP	4.850	140.0	57.0	59	276.450	107.0	15.6	85	75.660	4.5	0.7	3.395
OCT	5.060	50.0	26.3	47	133.078	78.0	8.3	89	41.998	3.8	0.4	1.872
NOV	4.940	197.0	57.0	71	281.580	183.0	23.4	87	115.596	4.8	0.6	2.964
DEC	4.280	154.0	50.0	68	214.000	197.0	18.6	91	79.608	4.9	0.7	2.996
AVERAGE:	4.794	115.0	39.9	64	191.287	148.0	22.1	85	104.684	4.9	1.2 *	5.744
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		41	41			48	48			49	50	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER CONSTRUCTION	84/01/01	87/03/31	
CONSTRUCTION COMPLETED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PICTON
PLANT : PICTON WPCP
WORKS NUMBER : 120000667
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 4500

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PICTON BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.215	80.0	7.0		22.505	63.0	7.0		22.505	4.4	0.7	2.250
FEB	2.749	135.0	6.0		16.494	96.0	3.0		8.247	5.8	0.6	1.512
MAR	4.243	48.0	6.0		25.458	38.0	11.0		46.673	3.2	0.8	3.437
APR	4.034	70.0	4.0		16.136	93.0	7.0		28.238	4.0	0.5	1.815
MAY	2.682	114.0	10.0		26.820	151.0	22.0		59.004	7.8	0.7	1.824
JUN	2.471	108.0	8.2		20.262	137.0	20.0		49.420	5.2	1.2 *	2.842
JUL	2.422	84.0	4.1		9.930	77.0	10.0		24.220	5.0	0.7	1.792
AUG	2.237	76.0	3.0		6.711	93.0	6.0		13.422	4.5	0.6	1.320
SEP	2.158	50.0	3.8		8.200	47.0	ND		ND	4.3	0.7	1.446
OCT	1.929	108.0	6.8		13.117	90.0	6.8		13.117	6.1	0.8	1.447
NOV	2.674	56.0	4.8		12.835	58.0	4.0		10.696	3.3	0.6	1.471
DEC	3.845	34.0	10.0		38.450	59.0	26.0		99.970	3.7	1.1 *	4.076
AVERAGE:	2.888	80.0	6.1		18.077	84.0	11.2		34.137	4.8	0.7	2.103
OBSERVATIONS:	12	12	12			12	11			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		12	12			12	11			12	12	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
IMPLANT SAMPLING PROGRAM IS BEING MODIFIED	88/03/01	88/04/30	88/12/31
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	88/03/01	88/04/30	88/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PITTSBURG
PLANT : CANA WPCP
WORKS NUMBER : 110001505
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CATARAQUI RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.09 1000 m3
POPULATION SERVED : 108

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.115	282.0	11.3		1.300	553.0	15.0		1.725	8.3	2.1	0.242
FEB	0.088	81.0	8.4		0.739	234.0	10.7		0.942	5.8	2.9	0.254
MAR	0.222	30.0	15.9		3.530	43.0	22.1		4.906	3.4	2.9	0.644
APR	0.112	54.0	11.3		1.266	92.0	25.7		2.878	3.0	1.7	0.194
MAY	0.063	95.0	2.6		0.164	102.0	8.9		0.561	4.0	1.3	0.084
JUN	0.052	73.0	2.4		0.125	289.0	12.1		0.629	3.8	1.9	0.101
JUL	0.031	93.0	3.3		0.102	143.0	12.7		0.394	7.3	3.6	0.113
AUG	0.022	145.0	1.8		0.040	201.0	15.6		0.343	7.8	3.9	0.086
SEP	0.080	61.0	2.2		0.176	68.0	16.4		1.312	2.4	2.6	0.204
OCT	0.051	74.0	2.9		0.148	87.0	18.6		0.949	3.4	2.1	0.107
NOV	0.115	53.0	8.6		0.989	77.0	40.1		4.612	2.7	2.0	0.235
DEC	0.138	47.0	4.5		0.621	109.0	19.8		2.732	2.4	1.2	0.163
AVERAGE:	0.091	91.0	6.3		0.767	166.0	18.1		1.832	4.5	2.4	0.202
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		76	76			83	83			83	83	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/04/01	87/09/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PLANTAGENET
PLANT : PLANTAGENET LAGOON
WORKS NUMBER : 110001621
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SOUTH NATION RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.59 1000 m3
POPULATION SERVED : 876

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.489	ND	ND			ND	ND			ND	ND	
FEB	0.427	33.0	ND			236.0	ND			5.1	ND	
MAR	0.844	55.0	21.7			201.0	62.7			6.2	3.7	
APR	0.728	21.0	8.5			69.0	29.5			4.3	3.0	
MAY	0.489	67.0	ND			326.0	ND			4.8	ND	
JUN	0.585	63.0	ND			162.0	ND			5.1	ND	
JUL	0.490	78.0	ND			616.0	ND			3.9	ND	
AUG	0.445	99.0	ND			456.0	ND			4.4	ND	
SEP	0.552	53.0	ND			205.0	ND			3.7	ND	
OCT	0.506	67.0	14.5			141.0	7.5			6.8	0.3	
NOV	0.590	91.0	ND			247.0	ND			4.1	ND	
DEC	0.715	150.0	ND			321.0	ND			7.2	ND	
AVERAGE:	0.572	71.0	14.9		10.613	271.0	33.2		26.063	5.1	2.3	1.820
OBSERVATIONS:12		11	3			11	3			11	3	
EXCEEDANCES												
NO OF SAMPLES		22	11			22	11			22	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING	87/04/01	87/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PRESCOTT
PLANT : EDWARDSBURGH WPCP
WORKS NUMBER : 110001122
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.68 1000 m3
POPULATION SERVED : 4595

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST. LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.960	54.0	19.0	65	75.240	87.0	17.0	80	67.320	3.2	0.8	3.168
FEB	3.360	63.0	20.0	68	67.200	134.0	18.0	87	60.480	4.2	0.9	3.024
MAR	7.178	29.0	11.0	62	78.958	71.0	19.0	73	136.382	1.9	0.5	3.589
APR	5.700	29.0	16.0	45	91.200	103.0	19.5	81	111.150	3.2	0.6	3.135
MAY	3.850	63.0	17.0	73	65.450	187.0	26.0	86	100.100	3.5	0.6	2.310
JUN	3.840	50.0	10.6	79	40.704	254.0	22.5	91	86.400	5.7	0.5	1.920
JUL	3.940	46.0	10.0	78	39.400	111.0	19.5	82	76.830	3.5	0.8	3.310
AUG	3.620	35.0	14.0	60	50.680	147.0	37.0	75	133.940	3.2	0.9	3.330
SEP	4.210	32.0	15.5	52	65.255	130.0	28.5	78	119.985	3.4	0.9	3.579
OCT	4.600	32.0	20.5	36	94.300	91.0	16.0	82	73.600	2.8	0.5	2.116
NOV	5.050	39.0	24.5	37	123.725	98.0	16.0	84	80.800	1.9	0.4	2.171
DEC	6.240	34.0	16.0	53	99.840	113.0	22.0	81	137.280	2.5	0.5	3.120
AVERAGE:	4.629	42.0	16.2	59	74.329	127.0	21.8	82	98.689	3.3	0.7	2.898
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			24	23			48	48	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RENFREW
PLANT : RENFREW WPCP
WORKS NUMBER : 120000603
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 8.63 1000 m3
POPULATION SERVED : 8200

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BONNECHERE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	6.908	120.0	24.0	80	165.792	154.0	22.0	86	151.976	6.0	1.8 *	12.434
FEB	7.043	100.0	32.0	68	225.376	88.0	26.5	70	186.639	4.8	2.8 *	19.720
MAR	12.987	36.0	11.0	69	142.857	78.0	14.0	82	181.818	2.8	0.6	7.662
APR	13.679	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	8.803	56.0	5.0	91	44.015	112.0	8.0	93	70.424	4.9	0.5	4.666
JUN	9.998	26.0	3.2	88	31.994	83.0	7.6	91	75.985	2.0	0.2	1.600
JUL	7.802	40.0	19.0	52	148.238	80.0	22.5	72	175.545	2.9	0.7	5.071
AUG	7.155	38.0	20.0	47	143.100	105.0	17.0	84	121.635	3.5	0.9	6.296
SEP	6.834	94.0	13.0	86	88.842	214.0	26.0	88	177.684	6.1	1.1 *	7.176
OCT	7.357	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	7.377	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	8.678	74.0	14.5	80	125.831	147.0	9.9	93	85.912	39.0	0.4	3.384
AVERAGE:	8.718	65.0	15.7	73	124.005	118.0	17.1	84	136.402	8.0	1.0	7.557
OBSERVATIONS:	12	9	9			9	9			9	9	
EXCEEDANCES											3	
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
REMEDIAL MEASURES BEING EVALUATED	87/09/01	89/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ROCKLAND
PLANT : ROCKLAND LAGOON
WORKS NUMBER : 110001159
TREATMENT : AERATED CELL PLUS LAGOON

DESIGN CAPACITY : 3.34 1000 m3
POPULATION SERVED : 5000

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.723	54.0	34.3		59.099	95.0	20.3		34.977	5.3	3.3	5.686
FEB	1.546	58.0	35.3		54.574	193.0	26.0		40.196	25.8	3.6	5.566
MAR	2.773	88.0	29.8		82.635	483.0	18.8		52.132	7.4	3.6	9.983
APR	2.868	74.0	23.0		65.964	240.0	26.7		76.576	6.7	2.8	8.030
MAY	1.706	72.0	46.3		78.988	392.0	52.0		88.712	4.8	3.6	6.142
JUN	2.612	90.0	50.4		131.645	918.0	27.6		72.091	38.8	3.0	7.888
JUL	1.869	65.0	19.8		37.006	407.0	15.0		28.035	6.8	2.4	4.392
AUG	1.593	78.0	16.8		26.762	522.0	17.8		28.355	6.5	2.3	3.664
SEP	1.890	57.0	10.6		20.034	303.0	13.2		24.948	5.7	2.8	5.292
OCT	1.982	84.0	16.8		33.298	163.0	15.5		30.721	7.0	2.4	4.757
NOV	2.083	70.0	7.2		14.998	167.0	15.3		31.870	5.5	1.9	3.958
DEC	2.663	118.0	30.7		81.754	294.0	18.7		49.798	6.7	3.6	9.587
AVERAGE:	2.109	76.0	26.8		57.230	348.0	22.2		46.534	10.6	2.9	6.245
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		45	44			45	44			44	43	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INPLANT SAMPLING PROGRAM IS BEING MODIFIED	87/05/01	87/10/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RUSSELL
PLANT : EMBRUN PV LAGOON (IN OPERATION 1987)
WORKS NUMBER : 120002004
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RUSSELL
PLANT : RUSSELL LAGOON
WORKS NUMBER : 110001514
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CASTOR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.00 1000 m3
POPULATION SERVED : 1400

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.301	ND	ND			ND	ND			ND	ND	
FEB	0.283	228.0	ND			120.0	ND			8.9	ND	
MAR	0.367	104.0	ND			95.0	ND			6.0	ND	
APR	0.356	131.0	4.4			199.0	58.0			7.7	1.7	
MAY	0.264	100.0	ND			87.0	ND			8.4	ND	
JUN	0.262	101.0	ND			146.0	ND			6.7	ND	
JUL	0.247	118.0	ND			170.0	ND			6.6	ND	
AUG	0.232	138.0	ND			98.0	ND			9.0	ND	
SEP	0.270	92.0	ND			209.0	ND			9.1	ND	
OCT	0.269	64.0	ND			162.0	ND			11.7	ND	
NOV	0.276	126.0	ND			186.0	ND			7.7	ND	
DEC	0.371	32.0	ND			52.0	ND			4.7	ND	
AVERAGE:	0.292	112.0	4.4		1.566	138.0	58.0 *		20.648	7.9	1.7	0.616
OBSERVATIONS:	12	11	1			11	1			11	1	
EXCEEDANCES												
NO OF SAMPLES		19	3			19	3			19	3	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	88/03/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SIDNEY
PLANT : BATAWA WPCP
WORKS NUMBER : 110000668
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.56 1000 m3
POPULATION SERVED : 300

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRENT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.350	64.0	3.3		4.455	43.0	12.0		16.200	2.7	1.0	1.350
FEB	1.310	88.0	1.7		2.227	67.0	15.7		20.567	3.1	0.9	1.192
MAR	1.390	44.0	2.2		3.058	47.0	9.0		12.510	2.3	0.7	0.945
APR	1.350	42.0	3.5		4.725	36.0	10.0		13.500	2.3	0.7	0.986
MAY	1.327	73.0	3.8		5.043	51.0	8.8		11.678	2.4	0.7	0.889
JUN	1.300	104.0	3.8		4.940	62.0	8.3		10.790	3.6	0.8	1.092
JUL	1.090	74.0	4.5		4.905	32.0	12.0		13.080	2.6	0.8	0.839
AUG	0.950	87.0	3.8		3.610	47.0	10.0		9.500	1.8	1.2 *	1.140
SEP	0.890	67.0	4.0		3.560	35.0	7.2		6.408	2.0	0.8	0.685
OCT	0.870	121.0	4.1		3.567	37.0	5.2		4.524	2.3	0.7	0.635
NOV	1.090	90.0	4.0		4.360	39.0	7.6		8.284	3.2	1.0	1.068
DEC	1.290	114.0	7.2		9.288	44.0	9.1		11.739	4.0	1.0	1.226
AVERAGE:	1.184	81.0	3.8		4.478	45.0	9.6		11.565	2.7	0.9	1.004
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		50	50			73	73			57	56	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SMITHS FALLS
PLANT : SMITHS FALLS WPCP
WORKS NUMBER : 120000890
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 11.36 1000 m3
POPULATION SERVED : 11000

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RIDEAU RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	10.683	69.0	25.5	63	272.416	61.0	24.5	60	261.733	2.1	1.0	10.149
FEB	10.546	92.0	38.0	59	400.748	66.0	26.0	61	274.196	2.5	1.1 *	11.390
MAR	16.140	46.0	19.5	58	314.730	59.0	28.5	52	459.990	1.9	0.6	9.200
APR	14.813	42.0	42.0	0	622.146	79.0	29.0	63	429.577	2.2	0.6	8.147
MAY	10.108	88.0	30.5	65	308.294	74.0	26.0	65	262.808	2.3	0.9	9.299
JUN	11.182	66.0	22.5	66	251.595	102.0	32.0	69	357.824	2.3	0.7	7.604
JUL	ND	68.0	20.0	71	ND	97.0	27.0	72	ND	2.7	0.9	ND
AUG	9.530	63.0	19.5	69	185.835	56.0	30.0	46	285.900	2.0	1.9 *	17.631
SEP	11.235	53.0	15.0	72	168.525	120.0	18.0	85	202.230	3.7	0.5	5.393
OCT	11.180	55.0	19.0	65	212.420	58.0	23.0	60	257.140	2.4	0.8	9.056
NOV	11.978	58.0	32.5	44	389.285	82.0	50.5	38	604.889	2.9	1.9 *	22.878
DEC	14.455	50.0	18.0	64	260.190	38.0	20.0	47	289.100	1.8	0.5	7.372
AVERAGE:	11.986	62.0	25.2	63	307.835	74.0	27.9	60 *	335.035	2.4	0.9	10.738
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		22	22			23	21			23	23	

COMPLIANCE :

BOD - YES
SS - NO
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	88/01/01	88/12/31	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	88/05/01	88/12/31	
INFILTRATION PROBLEMS ARE BEING CORRECTED	87/11/01	92/12/31	
SEWER SEPARATION UNDERWAY	87/08/01	92/12/31	
OPERATOR TRAINING IS BEING PROVIDED	87/06/01	87/12/31	
IMPLEMENTING AN OPERATIONS CONTROL PROGRAM	87/01/01	87/12/31	
PHOSPHORUS REMOVAL OPERATION UNDER REVIEW	86/11/01	87/01/17	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ST ISIDORE DE PRESCOTT
PLANT : ST.ISIDORE LAGOON
WORKS NUMBER : 110002210
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SCOTCH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.65 1000 m3
POPULATION SERVED : 772

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.218	139.0	ND			61.0	ND			7.3	ND	
FEB	0.199	280.0	ND			171.0	ND			14.0	ND	
MAR	0.307	193.0	ND			133.0	ND			11.5	ND	
APR	0.301	115.0	1.9			103.0	41.0			7.8	1.4	
MAY	0.236	145.0	ND			78.0	ND			14.4	ND	
JUN	0.252	56.0	ND			50.0	ND			5.1	ND	
JUL	0.265	118.0	ND			110.0	ND			9.7	ND	
AUG	0.239	165.0	ND			126.0	ND			10.0	ND	
SEP	0.253	59.0	ND			93.0	ND			8.6	ND	
OCT	0.252	124.0	ND			157.0	ND			10.3	ND	
NOV	0.285	119.0	ND			182.0	ND			8.4	ND	
DEC	0.319	130.0	ND			226.0	ND			10.9	ND	
AVERAGE:	0.261	137.0	1.9		0.572	124.0	41.0 *		12.341	9.8	1.4	0.418
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		19	3			19	3			19	3	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - NO	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INPLANT SAMPLING PROGRAM IS BEING MODIFIED	87/04/01	87/04/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STIRLING
PLANT : STIRLING LAGOON (MUN.16.1.86)
WORKS NUMBER : 110000686
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 1.13 1000 m3
POPULATION SERVED : 1700

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RAWDON CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.895	ND	ND			ND	ND			ND	ND	
FEB	0.802	ND	ND			ND	ND			ND	ND	
MAR	1.076	ND	ND			ND	ND			ND	ND	
APR	1.859	ND	ND			ND	ND			ND	ND	
MAY	1.377	ND	ND			ND	ND			ND	ND	
JUN	0.902	ND	ND			ND	ND			ND	ND	
JUL	0.624	ND	ND			ND	ND			ND	ND	
AUG	0.670	ND	ND			ND	ND			ND	ND	
SEP	0.699	ND	ND			ND	ND			ND	ND	
OCT	0.661	ND	ND			ND	ND			ND	ND	
NOV	0.716	ND	ND			ND	ND			ND	ND	
DEC	1.032	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.943	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:12		0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - INSUFFICIENT DATA
SS - INSUFFICIENT DATA
TP - INSUFFICIENT DATA

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TRENTON
PLANT : TRENTON WPCP
WORKS NUMBER : 110000775
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 15.91 1000 m3
POPULATION SERVED : 15346

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BAY OF QUINTE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	11.110	258.0	17.0		188.870	123.0	8.9		98.879	6.1	0.6	6.999
FEB	10.200	204.0	13.8		140.760	144.0	10.2		104.040	5.5	0.3	2.856
MAR	13.080	145.0	12.0		156.960	134.0	9.0		117.720	4.3	0.4	4.709
APR	16.730	209.0	17.0		284.410	144.0	10.4		173.992	5.2	0.6	9.202
MAY	10.540	323.0	15.0		158.100	183.0	7.5		79.050	7.3	0.5	5.586
JUN	10.100	311.0	15.5		156.550	160.0	15.6		157.560	7.1	0.6	5.757
JUL	8.550	285.0	16.0		136.800	162.0	25.0		213.750	6.4	0.9	8.037
AUG	9.060	181.0	9.5		86.070	195.0	11.3		102.378	10.0	0.3	2.537
SEP	10.820	258.0	10.0		108.200	179.0	16.0		173.120	5.4	0.7	8.007
OCT	9.570	297.0	16.0		153.120	201.0	19.0		181.830	9.5	0.9	8.613
NOV	12.180	194.0	13.4		163.212	154.0	10.9		132.762	5.6	0.4	4.750
DEC	12.860	306.0	12.5		160.750	128.0	11.7		150.462	5.1	0.4	5.401
AVERAGE:	11.233	248.0	14.0		157.817	159.0	13.0		140.462	6.5	0.5	6.038
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		53	54			242	243			78	79	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TWEED
PLANT : TWEED LAGOON
WORKS NUMBER : 120000952
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.20 1000 m3
POPULATION SERVED : 1607

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MOIRA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.400	198.0	ND			154.0	ND			4.8	ND	
FEB	1.300	104.0	ND			68.0	ND			4.1	ND	
MAR	1.700	96.0	10.0			148.0	6.0			2.8	0.8	
APR	4.200	18.0	8.0			22.0	8.0			13.0	0.8	
MAY	1.600	78.0	ND			105.0	4.0			3.6	0.9	
JUN	1.300	138.0	ND			111.0	ND			4.4	ND	
JUL	1.000	74.0	ND			159.0	ND			5.6	ND	
AUG	0.640	83.0	ND			142.0	ND			4.6	ND	
SEP	0.970	105.0	ND			154.0	ND			3.7	ND	
OCT	0.830	128.0	10.0			182.0	15.0			5.5	0.8	
NOV	1.260	108.0	11.0			86.0	16.0			3.5	0.7	
DEC	1.900	73.0	ND			80.0	ND			1.8	ND	
AVERAGE:	1.508	100.0	9.8		18.190	118.0	9.8		16.562	4.8	0.8	1.541
OBSERVATIONS:12		12	4			12	5			12	5	
EXCEEDANCES												
NO OF SAMPLES		25	11			27	12			26	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES

START DATE   END DATE   ANTICIPATED COMPLIANCE

NONE

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VANKLEEK HILL
PLANT : VANKLEEK HILL LAGOON
WORKS NUMBER : 110001658
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LITTLE RIDEAU CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.90 1000 m3
POPULATION SERVED : 1711

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.852	62.0	ND			114.0	ND			5.1	ND	
FEB	0.743	200.0	ND			120.0	ND			6.3	ND	
MAR	1.321	74.0	ND			58.0	ND			6.2	ND	
APR	1.210	74.0	ND			76.0	ND			2.9	ND	
MAY	0.783	104.0	15.7			64.0	27.0			3.5	0.4	
JUN	0.882	93.0	ND			47.0	ND			3.7	ND	
JUL	0.724	68.0	ND			63.0	ND			4.4	ND	
AUG	0.700	72.0	ND			33.0	ND			3.7	ND	
SEP	0.756	70.0	ND			58.0	ND			3.5	ND	
OCT	0.635	41.0	10.8			43.0	24.9			4.8	0.8	
NOV	1.011	103.0	ND			98.0	ND			5.4	ND	
DEC	1.207	57.0	ND			56.0	ND			4.1	ND	
AVERAGE:	0.902	85.0	13.3		9.575	69.0	26.0		18.476	4.5	0.6	0.411
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		55	15			55	11			47	13	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WELLINGTON
PLANT : WELLINGTON WPCP
WORKS NUMBER : 120003165
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.50 1000 m3
POPULATION SERVED : 1077

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.759	86.0	1.0		0.759	87.0	2.0		1.518	5.6	0.4	0.304
FEB	0.528	ND	3.0		1.584	149.0	2.0		1.056	5.8	0.5	0.264
MAR	1.171	50.0	4.9		5.738	50.0	9.0		10.539	3.9	0.5	0.550
APR	1.368	32.0	2.7		3.694	49.0	9.3		12.722	1.4	0.8	1.053
MAY	0.715	125.0	3.0		2.145	127.0	7.0		5.005	6.3	0.3	0.186
JUN	0.451	230.0	1.0		0.451	475.0	6.1		2.751	13.2	0.5	0.235
JUL	0.371	190.0	2.0		0.742	83.0	3.2		1.187	11.2	0.4	0.156
AUG	0.345	82.0	0.8		0.276	176.0	5.4		1.863	6.3	0.1	0.048
SEP	0.295	78.0	1.3		0.384	179.0	9.2		2.714	6.6	0.5	0.147
OCT	0.300	62.0	2.5		0.750	92.0	6.2		1.860	5.9	0.2	0.069
NOV	0.350	102.0	2.0		0.700	126.0	6.8		2.380	6.7	0.5	0.168
DEC	0.785	45.0	2.3		1.805	82.0	9.2		7.222	3.2	0.3	0.212
AVERAGE:	0.620	98.0	2.2		1.586	140.0	6.3		4.235	6.3	0.4	0.283
OBSERVATIONS:	12	11	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		11	26			12	28			12	28	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WESTPORT
PLANT : WESTPORT LAGOON
WORKS NUMBER : 110001550
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.27 1000 m3
POPULATION SERVED : 614

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : UPPER RIDEAU LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.288	125.0	ND			164.0	ND			6.9	ND	
FEB	0.268	205.0	ND			278.0	ND			6.9	ND	
MAR	0.353	83.0	16.0			119.0	6.0			5.3	2.2 *	
APR	0.427	66.0	8.8			103.0	18.7			5.5	1.0	
MAY	0.319	250.0	ND			518.0	ND			15.5	ND	
JUN	0.435	59.0	ND			84.0	ND			1.6	ND	
JUL	0.309	74.0	ND			106.0	ND			5.6	ND	
AUG	0.285	83.0	ND			138.0	ND			7.0	ND	
SEP	0.286	65.0	ND			114.0	ND			4.9	ND	
OCT	0.284	52.0	6.0			66.0	14.0			4.4	0.9	
NOV	0.311	107.0	16.0			79.0	27.0			4.3	0.3	
DEC	0.401	105.0	ND			120.0	ND			5.0	ND	
AVERAGE:	0.331	106.0	11.7		4.022	157.0	16.4		5.619	6.1	1.1 *	0.384
OBSERVATIONS:	12	12	4			12	4			12	4	
EXCEEDANCES											1	
NO OF SAMPLES		23	10			23	9			23	10	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/04/01	87/12/31	
COLLECTION SYSTEM INPUT MONITORING	87/04/01	88/07/31	88/12/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/04/01	88/07/31	88/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WILLIAMSBURG
PLANT : WILLIAMSBURG PV LAGOON
WORKS NUMBER : 120002013
TREATMENT : CONVENTIONAL LAGOON ANNUAL

REGION : SOUTHEAST
DISTRICT :
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION :

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - INSUFFICIENT DATA
SS - INSUFFICIENT DATA
TP - INSUFFICIENT DATA

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WINCHESTER
PLANT : WINCHESTER LAGOON
WORKS NUMBER : 110001202
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CASTOR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.32 1000 m3
POPULATION SERVED : 2200

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.064	106.0	ND			148.0	ND			5.4	ND	
FEB	1.023	183.0	ND			145.0	ND			8.4	ND	
MAR	1.542	105.0	ND			119.0	ND			7.2	ND	
APR	1.579	59.0	17.3			83.0	22.0			4.1	3.2	
MAY	1.257	100.0	ND			98.0	ND			6.1	ND	
JUN	1.335	102.0	ND			273.0	ND			5.6	ND	
JUL	1.325	57.0	ND			84.0	ND			4.6	ND	
AUG	1.045	152.0	ND			187.0	ND			9.3	ND	
SEP	1.047	92.0	ND			128.0	ND			5.6	ND	
OCT	1.052	157.0	ND			160.0	ND			7.5	ND	
NOV	1.163	149.0	9.3			214.0	17.7			9.2	4.1	
DEC	1.588	127.0	ND			161.0	ND			5.4	ND	
AVERAGE:	1.252	116.0	13.3		19.067	150.0	19.9		27.662	6.5	3.7	4.903
OBSERVATIONS:12		12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		22	6			22	6			22	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	1989	1990	1990

Northeastern Region

⑤

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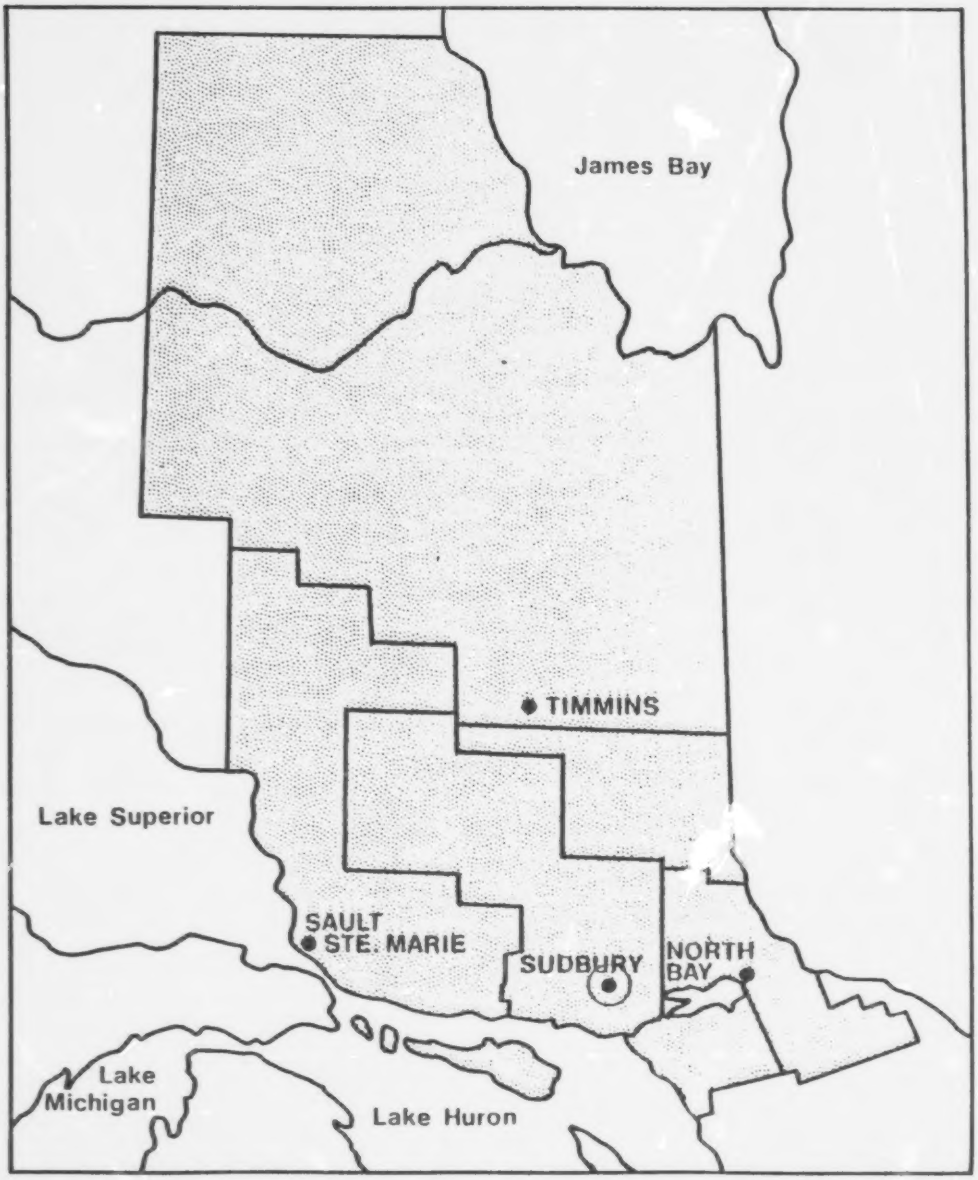
James Bay
TIMMINS
Lake Superior
SAULT
STE. MARIE
SUDBURY
NORTH
BAY
Lake
Michigan
Lake Huron

B-319

Northeastern Region
⑤

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Ontario

REGIONAL OFFICE

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
P1B 2H3
(705) 476-1001

Sault Ste. Marie
445 Albert St. East
P6A 2J9
(705) 949-4640

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

Timmins
83 Algonquin Blvd. West
P4N 2R4
(705) 268-3222

SUB-OFFICE

Parry Sound
74 Church St.
P2A 1Z1
(705) 746-2139

NORTHEASTERN SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	3	3	.000	.963	.963 (.212)
Primary	2	2	4	57.552	34.685	92.238 (20.290)
Conventional Activated Sludge	4	4	8	65.689	25.439	91.129 (20.046)
Modified Activated Sludge	0	0	0	.000	.000	.000 (.000)
Contact Stabilization	4	0	4	19.829	.000	19.829 (4.362)
Extended Aeration	8	8	16	18.838	28.380	47.219 (10.387)
Trickling Filter	0	1	1	.000	.454	.454 (.100)
High Rate	0	1	1	.000	68.190	68.190 (15.000)
Oxidation Ditch	0	1	1	.000	1.359	1.359 (.299)
Aerated Lagoon	1	0	1	4.546	.000	4.546 (1.000)
Conventional Lagoon Continuous	3	3	6	1.154	2.504	3.659 (.805)
Conventional Lagoon Seasonal	22	10	32	12.995	6.755	19.750 (4.345)
Conventional Lagoon Annual	0	0	0	.000	.000	.000 (.000)
Lagoon and Spray	0	0	0	.000	.000	.000 (.000)
Aerated Cell Plus Lagoon	2	1	3	12.319	.390	12.710 (2.796)
Exfiltration Lagoon	2	1	3	1.682	1.545	3.227 (.710)
TOTALS	48	35	83	194.608 (42.809)	170.670 (37.543)	365.278 (80.352)

10^3m/d: THOUSANDS OF CUBIC METRES PER DAY
mIgd: MILLION IMPERIAL GALLONS PER DAY
01307-PDR.48

CONVERSION FACTOR
$10^3 m^3/d$ = .220 MIGD

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ARMSTRONG
PLANT : EARLTON LAGOON
WORKS NUMBER : 120000042
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : EVANTUREL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.36 1000 m3
POPULATION SERVED : 1452

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	214.0	8.4		ND	72.0	5.8		ND	6.4	3.2	ND
FEB	ND	81.0	15.6		ND	91.0	24.9		ND	5.1	4.2	ND
MAR	ND	113.0	29.3		ND	137.0	21.8		ND	7.0	5.4	ND
APR	ND	22.0	8.8		ND	26.0	11.5		ND	1.6	2.5	ND
MAY	ND	41.0	24.9		ND	27.0	64.4		ND	2.8	4.6	ND
JUN	ND	60.0	11.1		ND	90.0	22.4		ND	4.3	1.1	ND
JUL	ND	60.0	11.1		ND	90.0	22.4		ND	4.4	1.1	ND
AUG	ND	88.0	24.0		ND	160.0	30.0		ND	6.1	4.1	ND
SEP	ND	96.0	50.0		ND	120.0	45.0		ND	7.2	3.9	ND
OCT	ND	80.0	42.0		ND	130.0	75.0		ND	4.7	3.9	ND
NOV	ND	220.0	21.0		ND	160.0	25.0		ND	7.3	3.8	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	98.0	22.4		0.000	100.0	31.7		0.000	5.2	3.4	0.000
OBSERVATIONS:	0	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		11	11			11	11			10	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ASSIGINACK
PLANT : MANITOWANING LAGOON
WORKS NUMBER : 110001408
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.25 1000 m3
POPULATION SERVED : 440

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.207	10.0	ND			16.0	ND			0.8	ND	
FEB	0.196	236.0	ND			295.0	ND			9.7	ND	
MAR	0.378	135.0	ND			145.0	ND			6.6	ND	
APR	0.291	87.0	9.0			73.0	11.3			4.6	3.6	
MAY	0.213	12.0	ND			20.0	ND			1.2	ND	
JUN	0.224	28.0	ND			40.0	ND			0.9	ND	
JUL	0.202	15.0	ND			15.0	ND			1.3	ND	
AUG	0.209	15.0	ND			20.0	ND			1.5	ND	
SEP	0.210	27.0	ND			45.0	ND			1.7	ND	
OCT	0.243	17.0	ND			25.0	ND			1.2	ND	
NOV	0.248	34.0	9.2			35.0	11.0			1.6	3.1	
DEC	0.391	163.0	ND			450.0	ND			3.6	ND	
AVERAGE:	0.251	65.0	9.1		2.451	98.0	11.2		3.008	2.9	3.4	0.914
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		13	24			13	24			13	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	BLACK RIVER MATHESON
PLANT	HOLTYRE WPCP
WORKS NUMBER	120000328
TREATMENT	COMMUNAL SEPTIC TANK
DESIGN CAPACITY	0.00 1000 m3
POPULATION SERVED	0

REGION	NORTHEAST
DISTRICT	TIMMINS
OPERATING AUTHORITY	MUNICIPAL
WATERCOURSE	BLACK RIVER
MAJOR BASIN	ARCTIC WATERSHED
MINOR BASIN	JAMES BAY
IJC DESIGNATION	NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0	0	0.000	0.0	0.0	0	0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :	CRITERIA :
BOD - INSUFFICIENT DATA	BOD - 30%
SS - INSUFFICIENT DATA	SS - 50%
TP - INSUFFICIENT DATA	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : HOLTYRE-ROSS MINE WPCP
WORKS NUMBER : 120003209
TREATMENT : COMMUNAL SEPTIC TANK

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0	0	0.000	0.0	0.0	0	0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30%
SS - INSUFFICIENT DATA SS - 50%
TP - INSUFFICIENT DATA TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : MATHESON WPCP
WORKS NUMBER : 110000025
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BLACK RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.04 1000 m3
POPULATION SERVED : 920

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.660	104.0	5.2		3.432	96.0	4.0		2.640	6.6	2.9	1.914
FEB	0.650	128.0	6.0		3.900	114.0	6.5		4.225	7.0	3.3	2.145
MAR	0.880	118.0	4.6		4.048	104.0	4.2		3.696	4.6	2.4	2.112
APR	0.980	41.0	9.4		9.212	34.0	8.0		7.840	2.9	1.3	1.274
MAY	0.800	112.0	14.6		11.680	67.0	5.8		4.640	4.6	2.6	2.080
JUN	0.820	47.0	10.0		8.200	80.0	4.0		3.280	4.7	1.6	1.312
JUL	0.886	24.0	2.4		2.126	35.0	6.0		5.316	2.7	1.6	1.418
AUG	0.698	32.0	0.1		0.070	100.0	3.0		2.094	3.5	3.2	2.234
SEP	0.661	80.0	2.3		1.520	265.0	4.0		2.644	6.0	2.0	1.322
OCT	0.919	42.0	ND		ND	60.0	ND		ND	4.2	ND	ND
NOV	0.687	81.0	2.9		1.992	82.0	5.0		3.435	3.9	1.6	1.099
DEC	3.292	38.0	2.1		6.913	65.0	8.0		26.336	3.9	2.1	6.913
AVERAGE:	0.994	71.0	5.4		4.827	92.0	5.3		6.013	4.6	2.2	2.166
OBSERVATIONS:	12	12	11			12	11			12	11	
EXCEEDANCES												
NO OF SAMPLES		22	22			23	19			23	19	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: BLACK RIVER MATHESON	REGION	: NORTHEAST
PLANT	: RAMORE LAGOON	DISTRICT	: TIMMINS
WORKS NUMBER	: 110001104	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL LAGOON CONTINUOUS (SEASONAL 1987)	WATERCOURSE	: BLACK RIVER
		MAJOR BASIN	: ARCTIC WATERSHED
		MINOR BASIN	: JAMES BAY
DESIGN CAPACITY	: 0.12 1000 m3	IJC DESIGNATION	: NON IJC
POPULATION SERVED	: 320		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.090	72.0	18.8		1.692	52.0	26.9		2.421	5.3	3.2	0.288
FEB	0.090	215.0	21.5		1.935	226.0	22.6		2.034	9.4	5.0	0.447
MAR	0.138	86.0	27.1		3.740	89.0	18.0		2.484	5.5	4.3	0.589
APR	0.160	61.0	18.3		2.928	106.0	25.5		4.080	3.1	3.1	0.501
MAY	0.395	301.0	ND		ND	380.0	ND		ND	15.9	ND	ND
JUN	0.272	43.0	ND		ND	62.0	ND		ND	4.7	ND	ND
JUL	0.479	29.0	ND		ND	60.0	ND		ND	2.6	ND	ND
AUG	0.377	74.0	ND		ND	60.0	ND		ND	5.9	ND	ND
SEP	0.396	110.0	26.0		10.296	82.0	15.0		5.940	5.0	3.1	1.228
OCT	0.558	84.0	14.0		7.812	120.0	35.0		19.530	5.5	1.9	1.060
NOV	0.334	111.0	8.5		2.839	200.0	16.5		5.511	6.7	2.0	0.668
DEC	1.886	118.0	5.7		10.750	225.0	9.5		17.917	11.4	2.9	5.375
AVERAGE:	0.431	109.0	17.5		5.249	138.0	21.1		7.490	6.8	3.2	1.270
OBSERVATIONS:12		12	8			12	8			12	8	
EXCEEDANCES												
NO OF SAMPLES		23	18			23	18			23	18	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	87/04/30	88/09/01	
UNDER CONSTRUCTION	87/10/01		
CONSTRUCTION COMPLETED		89/04/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : VAL GAGNE LAGOON
WORKS NUMBER : 120001559
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
(SEASONAL 1987)

DESIGN CAPACITY : 0.12 1000 m3
POPULATION SERVED : 300

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CREEK TO BLACK RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.080	300.0	ND		ND	161.0	ND		ND	9.0	ND	ND
FEB	0.090	112.0	46.0		4.140	121.0	12.8		1.152	5.8	3.7	0.330
MAR	0.080	91.0	29.4		2.352	85.0	23.4		1.872	5.4	3.7	0.297
APR	0.090	105.0	9.8		0.882	123.0	19.4		1.746	7.1	1.6	0.140
MAY	ND	105.0	ND		ND	74.0	ND		ND	6.2	ND	ND
JUN	ND	74.0	ND		ND	140.0	ND		ND	6.9	ND	ND
JUL	ND	41.0	ND		ND	67.0	ND		ND	4.2	ND	ND
AUG	ND	12.0	ND		ND	20.0	ND		ND	1.6	ND	ND
SEP	ND	90.0	16.0		ND	170.0	25.0		ND	4.8	2.0	ND
OCT	ND	96.0	8.5		ND	240.0	35.0		ND	5.6	1.2	ND
NOV	ND	89.0	13.2		ND	72.0	57.5		ND	3.7	1.5	ND
DEC	ND	124.0	8.1		ND	210.0	32.5		ND	8.6	2.1	ND
AVERAGE:	0.085	103.0	18.7		2.458	124.0	29.4		1.590	5.7	2.2	0.256
OBSERVATIONS:	4	12	7			12	7			12	7	
EXCEEDANCES												
NO OF SAMPLES		22	17			22	17			22	17	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BLIND RIVER
PLANT : BLIND RIVER WPCP
WORKS NUMBER : 110002416
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 3.50 1000 m3
POPULATION SERVED : 3200

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.083	76.0	9.8		20.413	75.0	7.9		16.456	4.5	3.1	6.457
FEB	1.519	ND	ND		ND	88.0	8.7		13.215	ND	ND	ND
MAR	1.779	44.0	3.3		5.871	61.0	7.5		13.342	2.3	2.2	3.914
APR	1.591	20.0	2.6		4.137	50.0	2.8		4.455	3.3	2.1	3.341
MAY	1.528	66.0	2.6		3.973	73.0	7.1		10.849	3.5	3.0	4.584
JUN	2.247	124.0	3.5		7.864	83.0	5.9		13.257	6.6	3.1	6.966
JUL	2.133	90.0	1.8		3.839	73.0	4.4		9.385	5.3	2.9	6.079
AUG	2.023	ND	ND		ND	80.0	4.6		9.306	ND	ND	ND
SEP	1.963	107.0	3.8		7.459	77.0	4.3		8.441	7.5	3.7	7.263
OCT	2.179	ND	ND		ND	81.0	5.1		11.113	ND	ND	ND
NOV	2.317	120.0	3.0		6.951	62.0	5.1		11.817	5.6	3.1	7.067
DEC	2.547	72.0	2.6		6.622	73.0	0.8		2.038	3.5	2.1	5.298
AVERAGE:	1.992	80.0	3.7		7.459	73.0	5.4		10.306	4.7	2.8	5.663
OBSERVATIONS:	12	9	9			12	12			9	9	
EXCEEDANCES												
NO OF SAMPLES		15	15			53	48			14	15	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BRUCE MINES
PLANT : BRUCE MINES LAGOON
WORKS NUMBER : 110001756
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST.JOSEPH CHL.TO L.HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.28 1000 m3
POPULATION SERVED : 525

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.267	31.0	ND			18.0	ND			2.7	ND	
FEB	0.224	210.0	ND			66.0	ND			5.4	ND	
MAR	0.328	68.0	ND			28.0	ND			1.8	ND	
APR	0.353	14.0	6.5			18.0	7.2			1.1	2.6	
MAY	0.262	175.0	ND			85.0	ND			10.0	ND	
JUN	0.246	76.0	ND			40.0	ND			6.6	ND	
JUL	0.238	86.0	ND			50.0	ND			13.0	ND	
AUG	0.289	76.0	ND			40.0	ND			7.9	ND	
SEP	0.258	70.0	ND			37.0	ND			4.3	ND	
OCT	0.340	22.0	ND			15.0	ND			1.9	ND	
NOV	0.442	19.0	ND			28.0	ND			1.6	ND	
DEC	0.442	118.0	ND			180.0	ND			6.2	ND	
AVERAGE:	0.307	80.0	6.5		2.294	50.0	7.2		2.542	5.2	2.6	0.918
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		16	1			16	1			15	1	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BURK'S FALLS
PLANT : BURKS FALLS LAGOON
WORKS NUMBER : 110001426
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAGNETAWAN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 800

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.298	107.0	ND			89.0	ND			6.3	ND	
FEB	0.291	114.0	ND			181.0	ND			7.4	ND	
MAR	0.403	69.0	ND			69.0	ND			4.7	ND	
APR	0.416	76.0	ND			71.0	ND			5.2	ND	
MAY	0.330	105.0	7.0			134.0	16.0			5.4	3.9	
JUN	0.343	86.0	ND			101.0	ND			5.8	ND	
JUL	0.324	70.0	ND			103.0	ND			6.9	ND	
AUG	0.373	79.0	ND			105.0	ND			5.1	ND	
SEP	0.327	110.0	ND			120.0	ND			8.5	ND	
OCT	0.340	77.0	ND			76.0	ND			5.4	ND	
NOV	0.361	111.0	6.3			105.0	1.8			5.1	3.2	
DEC	0.341	89.0	ND			105.0	ND			6.7	ND	
AVERAGE:	0.346	91.0	6.7		2.292	105.0	8.9		2.965	6.0	3.6	1.224
OBSERVATIONS:	12	12	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		16	6			16	6			17	6	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CALDWELL
PLANT : VERNER LAGOON
WORKS NUMBER : 110001872
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.47 1000 m3
POPULATION SERVED : 1116

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : VEUVE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.361	169.0	ND			107.0	ND			3.4	ND	
FEB	0.330	116.0	ND			95.0	ND			5.3	ND	
MAR	0.528	272.0	43.3			99.0	25.8			10.0	3.3 *	
APR	0.616	47.0	29.9			54.0	12.9			2.2	1.9 *	
MAY	0.489	109.0	12.5			102.0	24.6			6.4	0.7	
JUN	0.462	63.0	ND			158.0	ND			3.3	ND	
JUL	0.394	82.0	11.7			97.0	35.0			5.6	1.1 *	
AUG	0.384	69.0	ND			20.0	ND			5.0	ND	
SEP	0.369	98.0	ND			155.0	ND			8.7	ND	
OCT	0.439	95.0	2.8			95.0	30.0			4.2	0.6	
NOV	0.512	67.0	ND			100.0	ND			4.4	ND	
DEC	0.575	55.0	8.7			86.0	2.6			3.2	0.7	
AVERAGE:	0.455	104.0	18.2		9.706	97.0	21.8		10.342	5.1	1.4 *	0.717
OBSERVATIONS:	12	12	6			12	6			12	6	
EXCEEDANCES											3	
NO OF SAMPLES		20	19			21	19			21	19	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/07/01	87/10/31	
INFILTRATION PROBLEMS ARE BEING CORRECTED	88/06/01	88/10/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CAPREOL
PLANT : CAPREOL LAGOON
WORKS NUMBER : 120001210
TREATMENT : EXFILTRATION LAGOON

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.54 1000 m3
POPULATION SERVED : 3352

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.692	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	3.536	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	4.752	40.0	ND		ND	44.0	ND		ND	3.3	ND	ND
APR	6.079	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	5.405	ND	15.3		82.697	ND	32.8		177.284	ND	1.7	9.243
JUN	2.967	ND	10.3		30.560	ND	53.1		157.548	ND	2.1	6.290
JUL	2.145	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	2.548	ND	6.6		16.817	ND	10.0		25.480	ND	2.2	5.606
SEP	2.365	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	2.638	ND	20.0		52.760	ND	30.0		79.140	ND	2.2	5.804
NOV	2.870	ND	14.0		40.180	ND	20.0		57.400	ND	2.7	7.749
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	3.636	40.0	13.2		44.603	44.0	29.2		99.370	3.3	2.2	6.938
OBSERVATIONS:11		1	5			1	5			1	5	
EXCEEDANCES												
NO OF SAMPLES		1	5			1	5			1	5	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	88/06/01	88/11/30	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CASEY
PLANT : BELLE VALLEE LAGOON
WORKS NUMBER : 120001808
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLANCHE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.12 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	277.0	ND			44.0	ND			11.2	ND	
MAY	ND	ND	16.3			ND	98.4			ND	1.9	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	780.0	6.0			770.0	30.0			26.0	8.5	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	760.0	1.6			560.0	20.0			19.0	3.7	
NOV	ND	210.0	2.2			60.0	5.0			14.0	2.8	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	507.0	6.5		0.000	358.0	38.4		0.000	17.6	4.2	0.000
OBSERVATIONS:	0	4	4			4	4			4	4	
EXCEEDANCES												
NO OF SAMPLES		4	4			4	4			4	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CASIMIR J.A.
PLANT : ST.CHARLES LAGOON
WORKS NUMBER : 110002256
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 280

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MCPHERSON CREEK W.BRANCH
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.106	111.0	ND			87.0	ND			4.6	ND	
FEB	0.205	99.0	ND			77.0	ND			4.9	ND	
MAR	0.262	93.0	ND			80.0	ND			5.6	ND	
APR	0.120	29.0	ND			140.0	ND			3.1	ND	
MAY	0.130	82.0	ND			64.0	ND			5.5	ND	
JUN	0.122	112.0	ND			90.0	ND			6.1	ND	
JUL	0.140	117.0	ND			86.0	ND			6.3	ND	
AUG	0.068	66.0	ND			130.0	ND			7.1	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	0.084	100.0	ND			170.0	ND			8.8	ND	
DEC	0.089	93.0	ND			79.0	ND			4.4	ND	
AVERAGE:	0.133	90.0	0.0		0.000	100.0	0.0		0.000	5.6	0.0	0.000
OBSERVATIONS:	10	10	0			10	0			10	0	
EXCEEDANCES												
NO OF SAMPLES		17	0			17	0			17	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CHAPLEAU
PLANT : CHAPLEAU LAGOON
WORKS NUMBER : 110002149
TREATMENT : AERATED LAGOON
CONTINUOUS DISCHARGE
SERIES OPERATION
DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 2450

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NEBSKWASH
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.592	440.0	20.0		31.840	410.0	19.5		31.044	9.3	1.5	2.356
FEB	1.750	81.0	17.5		30.625	63.0	17.4		30.450	2.1	1.6	2.800
MAR	1.631	50.0	14.6		23.813	53.0	14.7		23.976	1.8	1.4	2.283
APR	1.481	100.0	14.9		22.067	156.0	22.0		32.582	2.4	1.4	2.073
MAY	1.377	56.0	6.0		8.262	75.0	22.5		30.983	4.0	1.4	1.928
JUN	1.865	137.0	6.4		11.936	177.0	7.5		13.988	2.0	0.8	1.492
JUL	1.590	130.0	15.0		23.850	140.0	5.0		7.950	2.4	0.9	1.351
AUG	1.432	18.0	3.8		5.442	40.0	2.0		2.864	2.1	1.0	1.432
SEP	1.152	79.0	8.0		9.216	72.0	7.0		8.064	3.8	14.0	16.128
OCT	1.099	68.0	16.0		17.584	65.0	17.5		19.232	3.4	1.3	1.429
NOV	0.759	152.0	15.5		11.764	220.0	15.0		11.385	5.2	1.9	1.404
DEC	0.479	154.0	17.5		8.383	235.0	12.5		5.987	4.0	1.5	0.719
AVERAGE:	1.351	122.0	12.9		17.065	142.0	13.6		18.209	3.5	2.4	2.950
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		21	21			21	21			22	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COCHRANE
PLANT : COCHRANE WPCP
WORKS NUMBER : 120000355
TREATMENT : EXTENDED AERATION
EFFLUENT POLISHING

DESIGN CAPACITY : 3.40 1000 m3
POPULATION SERVED : 4600

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LILLABELLE LAKE
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.607	130.0	5.0		18.035	189.0	46.0		165.922	3.1	0.6	2.164
FEB	3.241	230.0	15.0		48.615	150.0	48.0		155.568	0.4	0.2	0.648
MAR	4.334	178.0	46.0		199.364	149.0	53.7		232.736	4.8	1.0	4.334
APR	3.950	91.0	19.0		75.050	94.0	53.4		210.930	6.2	1.2	4.661
MAY	3.569	140.0	51.7		184.517	306.0	185.0		660.265	16.3	6.4	22.663
JUN	4.200	88.0	130.0		546.000	121.0	747.0		3137.400	4.1	5.1	21.420
JUL	4.775	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	4.189	54.0	8.0		33.512	120.0	25.0		104.725	3.5	1.6	6.702
SEP	2.128	52.0	15.0		31.920	150.0	75.0		159.600	3.8	3.0	6.384
OCT	3.887	44.0	62.0		240.994	46.0	310.0		1204.970	3.3	7.5	28.958
NOV	3.392	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	3.609	96.0	18.0		64.962	160.0	30.0		108.270	5.2	1.1	3.970
AVERAGE:	3.740	110.0	37.0 *		144.297	148.0	157.3 *		614.039	5.1	2.8	10.190
OBSERVATIONS:	12	10	10			10	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		8	8			8	8			8	8	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY			90/12/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY			90/12/31
FACILITY EXPANSION/UPGRADE-FUNDING UNDER REVIEW			90/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : COSBY M.M.
PLANT : NOELVILLE LAGOON
WORKS NUMBER : 110002425
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : WOLF RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.79 1000 m3
POPULATION SERVED : 551

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.184	256.0	ND			248.0	ND			8.6	ND	
FEB	0.183	225.0	ND			109.0	ND			7.1	ND	
MAR	0.246	196.0	ND			175.0	ND			7.5	ND	
APR	0.246	120.0	ND			285.0	ND			5.2	ND	
MAY	0.220	190.0	ND			143.0	ND			9.7	ND	
JUN	0.237	126.0	ND			193.0	ND			6.9	ND	
JUL	0.184	166.0	ND			247.0	ND			9.5	ND	
AUG	0.204	79.0	ND			140.0	ND			7.1	ND	
SEP	0.173	180.0	ND			215.0	ND			7.4	ND	
OCT	0.202	71.0	ND			56.0	ND			4.1	ND	
NOV	0.204	89.0	ND			115.0	ND			4.6	ND	
DEC	0.221	146.0	ND			175.0	ND			6.9	ND	
AVERAGE:	0.209	154.0	0.0		0.000	175.0	0.0		0.000	7.1	0.0	0.000
OBSERVATIONS:12		12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		33	0			33	0			33	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DUBREUILVILLE
PLANT : DUBREUILVILLE LAGOON (IN OPERATION 1987)
WORKS NUMBER : 110001970
TREATMENT : EXFILTRATION LAGOON

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

REGION : NORTHEAST
DISTRICT :
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION :

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ELLIOT LAKE
PLANT : ESTEN LAKE WPCP
WORKS NUMBER : 120001121
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 13.00 1000 m3
POPULATION SERVED : 19000

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ESTEN LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	5.583	67.0	7.9		44.106	120.0	8.8		49.130	3.9	0.5	2.847
FEB	5.248	99.0	6.3		33.062	142.0	8.9		46.707	3.8	0.7	3.464
MAR	7.195	193.0	4.1		29.499	125.0	11.7		84.181	3.5	0.6	4.533
APR	7.171	117.0	24.8		177.841	81.0	6.4		45.894	2.9	0.6	4.589
MAY	6.205	52.0	7.7		47.779	76.0	6.6		40.953	2.9	0.6	3.909
JUN	6.300	56.0	14.0		88.200	77.0	4.9		30.870	3.1	0.8	4.977
JUL	6.653	35.0	36.0		239.508	57.0	5.5		36.591	2.9	0.7	4.790
AUG	6.618	110.0	8.0		52.944	54.0	5.6		37.061	3.5	0.8	5.427
SEP	6.492	74.0	9.0		58.428	62.0	7.7		49.988	3.8	0.7	4.674
OCT	6.892	74.0	6.8		46.866	82.0	8.2		56.514	3.6	0.6	4.066
NOV	6.992	63.0	16.0		111.872	72.0	12.3		86.002	3.5	1.0	6.712
DEC	7.042	65.0	14.0		98.588	75.0	15.0		105.630	3.6	1.0	6.831
AVERAGE:	6.533	84.0	12.9		85.724	85.0	8.5		55.793	3.4	0.7	4.735
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			101	173			101	154	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ENGLEHART
PLANT : ENGLEHART LAGOON
WORKS NUMBER : 110000187
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ENGLEHART RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.90 1000 m3
POPULATION SERVED : 1730

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.400	127.0	12.8		17.920	152.0	17.9		25.060	4.5	2.9	4.060
FEB	1.060	138.0	51.5		54.590	168.0	17.0		18.020	6.8	3.4	3.604
MAR	1.450	46.0	29.5		42.775	138.0	16.5		23.925	3.0	1.8	2.610
APR	1.820	32.0	13.0		23.660	115.0	55.0		100.100	3.0	1.6	2.912
MAY	1.811	62.0	7.5		13.582	67.0	10.0		18.110	3.8	1.6	2.898
JUN	0.950	52.0	3.8		3.610	70.0	3.0		2.850	3.5	2.3	2.185
JUL	1.460	26.0	3.6		5.256	50.0	3.0		4.380	2.1	2.3	3.358
AUG	1.240	31.0	3.2		3.968	50.0	6.0		7.440	6.9	2.0	2.480
SEP	1.360	60.0	4.0		5.440	108.0	1.0		1.360	3.8	1.1	1.496
OCT	1.480	50.0	1.9		2.812	85.0	3.5		5.180	3.3	0.9	1.332
NOV	1.260	60.0	2.4		3.024	180.0	3.6		4.536	3.6	0.6	0.756
DEC	1.480	137.0	2.4		3.552	285.0	2.5		3.700	5.4	0.5	0.740
AVERAGE:	1.398	68.0	11.3		15.016	122.0	11.6		17.888	4.1	1.7	2.369
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			24	24			24	22	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ESPANOLA
PLANT : ESPANOLA WPCP
WORKS NUMBER : 110000212
TREATMENT : PRIMARY

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SPANISH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.00 1000 m3
POPULATION SERVED : 5200

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.035	108.0	70.6	35	214.271	79.0	30.3	62	91.961	5.3	5.0	15.175
FEB	3.085	118.0	87.0	26	268.395	78.0	40.2	48	124.017	5.2	5.0	15.425
MAR	3.320	168.0	97.7	42	324.364	58.0	36.6	37	121.512	4.9	4.9	16.268
APR	3.041	107.0	ND	100	ND	54.0	ND	100	ND	5.8	ND	ND
MAY	3.287	110.0	56.0	49	184.072	135.0	77.5	43	254.743	5.3	5.3	17.421
JUN	3.363	66.0	42.3	36	142.255	87.0	50.0	43	168.150	5.6	4.7	15.806
JUL	3.208	66.0	42.5	36	136.340	88.0	52.5	40	168.420	5.1	3.8	12.190
AUG	2.922	68.0	25.0	63	73.050	120.0	40.0	67	116.880	6.0	4.9	14.318
SEP	3.143	89.0	59.3	33	186.380	110.0	60.0	45	188.580	5.8	4.7	14.772
OCT	2.983	122.0	71.0	42	211.793	130.0	67.5	48	201.353	5.9	4.2	12.529
NOV	2.872	105.0	52.0	50	149.344	167.0	47.5	72	136.420	5.5	5.7	16.370
DEC	2.924	117.0	58.5	50	171.054	160.0	67.5	58	197.370	4.8	5.1	14.912
AVERAGE:	3.099	104.0	60.2	47	187.393	106.0	51.8	55	160.855	5.4	4.8	15.017
OBSERVATIONS:12		12	11			12	11			12	11	
EXCEEDANCES												
NO OF SAMPLES		24	23			24	23			24	23	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30%
SS - YES	SS - 50%
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
IMPROVING SLUDGE QUALITY	86/01/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FAUQUIER-STRICKLAND
PLANT : FAUQUIER LAGOON
WORKS NUMBER : 110001792
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 0.27 1000 m3
POPULATION SERVED : 650

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GROUNDHOG RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.274	ND	ND			ND	ND			ND	ND	
FEB	0.279	ND	ND			ND	ND			ND	ND	
MAR	0.317	120.0	ND			90.0	ND			4.3	ND	
APR	0.388	20.0	ND			110.0	ND			2.9	ND	
MAY	0.328	62.0	ND			150.0	ND			6.1	ND	
JUN	0.268	ND	ND			ND	ND			ND	ND	
JUL	0.346	36.0	ND			70.0	ND			3.6	ND	
AUG	0.325	ND	ND			ND	ND			ND	ND	
SEP	0.451	24.0	ND			150.0	ND			3.8	ND	
OCT	0.415	ND	ND			ND	ND			ND	ND	
NOV	0.458	ND	ND			ND	ND			ND	ND	
DEC	0.343	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.349	52.0	0.0		0.000	114.0	0.0		0.000	4.1	0.0	0.000
OBSERVATIONS:	12	5	0			5	0			5	0	
EXCEEDANCES												
NO OF SAMPLES		5	0			5	0			5	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GORE BAY
PLANT : GORE BAY LAGOON
WORKS NUMBER : 110002513
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.63 1000 m3
POPULATION SERVED : 780

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.330	101.0	ND			56.0	ND			3.8	ND	
FEB	0.320	156.0	ND			109.0	ND			5.2	ND	
MAR	0.520	122.0	ND			510.0	ND			2.1	ND	
APR	0.490	114.0	ND			140.0	ND			0.9	ND	
MAY	0.330	240.0	11.7			230.0	104.3			7.1	2.8	
JUN	0.330	92.0	3.5			75.0	10.6			3.2	2.5	
JUL	0.380	90.0	ND			60.0	ND			5.3	ND	
AUG	0.370	132.0	ND			108.0	ND			6.5	ND	
SEP	0.350	ND	ND			ND	ND			ND	ND	
OCT	0.390	ND	ND			ND	ND			5.5	ND	
NOV	0.420	66.0	3.3			85.0	6.6			3.1	1.3	
DEC	0.560	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.399	124.0	6.2		2.134	153.0	40.5 *		13.563	4.3	2.2	0.774
OBSERVATIONS:	12	9	3			9	3			10	3	
EXCEEDANCES												
NO OF SAMPLES		13	18			13	18			14	7	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - NO	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	87/01/01	87/12/31	
REMEDIAL MEASURES BEING EVALUATED	86/01/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAILEYBURY
PLANT : LAKE TEMISKAMING NEW WPCP
WORKS NUMBER : 110002158
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.60 1000 m3
POPULATION SERVED : 0

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE TEMISKAMING
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.852	138.0	9.2		7.838	152.0	6.9		5.879	6.5	1.3 *	1.125
FEB	0.586	141.0	9.7		5.684	154.0	17.3		10.138	8.9	1.0	0.586
MAR	0.975	130.0	5.5		5.362	117.0	20.8		20.280	6.8	0.7	0.673
APR	1.150	63.0	3.4		3.910	80.0	5.6		6.440	4.6	0.5	0.621
MAY	1.579	75.0	3.6		5.684	92.0	12.5		19.738	5.5	0.5	0.758
JUN	1.660	90.0	4.1		6.806	79.0	9.2		15.272	7.2	0.7	1.212
JUL	1.447	87.0	7.8		11.287	89.0	11.7		16.930	5.7	0.5	0.680
AUG	1.260	70.0	8.0		10.080	84.0	6.6		8.316	6.8	1.2 *	1.512
SEP	1.162	82.0	3.7		4.299	73.0	8.7		10.109	6.7	0.3	0.383
OCT	1.207	68.0	4.7		5.673	70.0	5.6		6.759	2.0	0.3	0.362
NOV	0.875	120.0	8.2		7.175	82.0	12.8		11.200	3.3	0.5	0.394
DEC	1.398	77.0	2.9		4.054	72.0	10.1		14.120	4.4	0.4	0.559
AVERAGE:	1.179	95.0	5.9		6.488	95.0	10.7		12.098	5.7	0.7	0.739
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		23	24			60	61			28	34	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAILEYBURY
PLANT : LAKE TEMISKAMING OLD WPCP
WORKS NUMBER : 110000310
TREATMENT : EXTENDED AERATION (P REMOVAL JULY 87)

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE TIMISKAMING
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.59 1000 m3
POPULATION SERVED : 3240

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.419	138.0	7.5		3.143	154.0	4.6		1.927	6.5	1.8	0.754
FEB	0.634	141.0	9.7		6.150	153.0	10.6		6.720	8.9	0.1	0.063
MAR	1.700	130.0	14.6		24.820	118.0	3.7		6.290	6.8	1.0	1.700
APR	1.874	63.0	2.0		3.748	80.0	3.2		5.997	4.6	0.6	1.124
MAY	0.293	67.0	14.7		4.307	109.0	10.5		3.076	5.8	1.0	0.293
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	0.324	82.0	5.0		1.620	68.0	9.3		3.013	6.7	0.4	0.130
OCT	0.855	84.0	6.8		5.814	81.0	12.2		10.431	2.5	0.9	0.769
NOV	1.334	120.0	4.4		5.870	72.0	13.4		17.876	0.7	0.5	0.667
DEC	1.460	77.0	4.2		6.132	82.0	13.0		18.980	4.4	0.6	0.876
AVERAGE:	0.988	100.0	7.7		6.845	102.0	8.9		8.257	5.2	0.8	0.708
OBSERVATIONS:	9	9	9			9	9			9	9	
EXCEEDANCES												
NO OF SAMPLES		12	16			38	41			15	24	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CONSTRUCTION COMPLETED	87/07/01	87/08/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HAILEYBURY
PLANT : NORTH COBALT LAGOON
WORKS NUMBER : 110001382
TREATMENT : CONVENTIONAL LAGOON SEASONAL
(P REMOVAL JULY 87)

DESIGN CAPACITY : 0.34 1000 m3
POPULATION SERVED : 800

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FARR CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.398	217.0	ND			148.0	ND			8.1	ND	
FEB	0.390	148.0	ND			123.0	ND			7.7	ND	
MAR	0.710	334.0	6.0			186.0	9.0			12.3	2.6	
APR	0.891	99.0	12.0			69.0	25.0			3.3	2.8	
MAY	0.756	117.0	6.0			140.0	ND			6.2	ND	
JUN	0.511	110.0	ND			92.0	ND			5.7	ND	
JUL	0.565	158.0	ND			37.0	ND			6.8	ND	
AUG	0.499	170.0	ND			170.0	ND			8.7	ND	
SEP	0.395	131.0	12.0			82.0	30.0			6.5	1.2	
OCT	0.620	80.0	14.9			91.0	26.6			5.2	2.9	
NOV	0.611	139.0	25.0			120.0	25.0			7.1	ND	
DEC	0.776	49.0	ND			50.0	ND			3.0	ND	
AVERAGE:	0.594	146.0	12.7		8.123	109.0	23.1		14.456	6.7	2.4	1.659
OBSERVATIONS:	12	12	6			12	5			12	4	
EXCEEDANCES												
NO OF SAMPLES		25	12			25	9			25	8	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HALLEBOURG
PLANT : HALLEBOURG LAGOON (IN OPERATION 1987)
WORKS NUMBER : 120002031
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH SERIES OPERATION
DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 261

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE MCILWROTH
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: HEARST	REGION	: NORTHEAST
PLANT	: CECILE TRAILER PARK LAGOON IN OP 87	DISTRICT	: TIMMINS
WORKS NUMBER	: 120001997	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	: MATTAWISHKWIA RIVER
		MAJOR BASIN	: ARCTIC WATERSHED
		MINOR BASIN	: JAMES BAY
DESIGN CAPACITY	: 0.07 1000 m3	IJC DESIGNATION	:
POPULATION SERVED	: 140		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	175.0	ND			120.0	ND			5.9	ND	
AVERAGE:	0.000	175.0	0.0		0.000	120.0	0.0		0.000	5.9	0.0	0.000
OBSERVATIONS:	0	1	0			1	0			1	0	
EXCEEDANCES												
NO OF SAMPLES		1	0			1	0			1	0	

COMPLIANCE :

BOD - INSUFFICIENT DATA
SS - INSUFFICIENT DATA
TP - INSUFFICIENT DATA

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HEARST
PLANT : HEARST LAGOON
WORKS NUMBER : 110000338
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE
RIVER FLOW DEPENDENT
DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 5270

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MATTAWISHKWIA RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.030	141.0	ND			170.0	ND			7.2	ND	
FEB	1.929	151.0	ND			243.0	ND			7.4	ND	
MAR	2.737	137.0	ND			268.0	ND			4.5	ND	
APR	3.549	65.0	ND			200.0	ND			5.7	ND	
MAY	3.402	121.0	14.4			190.0	31.0			4.4	2.0	
JUN	3.636	108.0	ND			215.0	ND			6.1	ND	
JUL	3.928	38.0	ND			55.0	ND			3.0	ND	
AUG	4.192	95.0	ND			280.0	ND			6.1	ND	
SEP	3.604	98.0	19.0			360.0	15.0			5.2	1.9	
OCT	2.546	67.0	5.1			152.0	5.5			4.4	1.5	
NOV	2.584	65.0	ND			80.0	ND			3.7	ND	
DEC	2.459	81.0	ND			137.0	ND			4.2	ND	
AVERAGE:	3.050	97.0	12.8		43.483	196.0	17.2		57.842	5.2	1.8	5.824
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		22	10			21	10			21	15	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : HORNEPAYNE
PLANT : HORNEPAYNE WPCP
WORKS NUMBER : 110001952
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : JACKFISH RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 1675

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/[illegible])	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.635	88.0	2.1		1.334	124.0	8.0		5.080	4.1	2.8	1.778
FEB	0.507	49.0	6.2		3.143	100.0	21.0		10.647	3.6	3.2	1.597
MAR	0.769	63.0	2.3		1.769	86.0	15.5		11.920	3.7	2.5	1.884
APR	1.026	66.0	4.0		4.104	97.0	26.3		26.984	2.8	2.2	2.257
MAY	0.801	67.0	2.5		2.002	82.0	21.4		17.141	3.6	2.4	1.922
JUN	0.685	93.0	3.4		2.329	172.0	19.6		13.426	5.5	2.9	1.987
JUL	1.057	38.0	1.4		1.480	87.0	12.0		12.684	2.9	2.1	2.220
AUG	0.910	51.0	0.5		0.455	129.0	15.2		13.832	3.7	2.5	2.275
SEP	0.832	82.0	1.5		1.248	172.0	14.7		12.230	3.6	1.6	1.331
OCT	0.865	45.0	1.4		1.211	69.0	7.7		6.660	2.7	2.2	1.860
NOV	0.931	57.0	1.5		1.397	96.0	18.0		16.758	2.8	1.3	1.210
DEC	0.819	70.0	2.0		1.638	80.0	12.4		10.156	4.4	2.6	2.088
AVERAGE:	0.820	64.0	2.4		1.843	108.0	16.0		13.127	3.6	2.3	1.867
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	23			63	58			24	22	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : IROQUOIS FALLS
PLANT : IROQUOIS FALLS WPCP
WORKS NUMBER : 110002121
TREATMENT : CONTACT STABILIZATION

DESIGN CAPACITY : 4.09 1000 m3
POPULATION SERVED : 5575

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ABITIBI RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.170	123.0	14.6		31.682	117.0	8.7		18.879	8.4	2.9	6.380
FEB	2.180	51.0	2.2		4.796	55.0	9.7		21.146	3.9	3.2	6.932
MAR	2.950	96.0	21.4		63.130	40.0	9.9		29.205	4.6	2.1	6.047
APR	3.180	78.0	20.0		63.600	53.0	4.7		14.946	4.3	1.2	3.848
MAY	3.150	56.0	29.0		91.350	45.0	5.9		18.585	0.8	0.7	2.142
JUN	3.120	33.0	16.0		49.920	34.0	6.3		19.656	3.2	7.2	22.464
JUL	3.710	ND	ND		ND	34.0	6.6		24.486	ND	ND	ND
AUG	3.550	11.0	1.8		6.390	18.0	3.2		11.360	1.5	2.4	8.520
SEP	3.120	88.0	12.0		37.440	78.0	3.8		11.856	5.5	2.5	7.800
OCT	4.090	46.0	37.0		151.330	72.0	11.7		47.853	3.2	2.4	9.816
NOV	2.820	47.0	24.0		67.680	64.0	10.5		29.610	7.3	1.6	4.568
DEC	2.770	29.0	34.5		95.565	32.0	11.1		30.747	1.8	3.7	10.249
AVERAGE:	3.068	60.0	19.3		60.262	54.0	7.7		23.194	4.0	2.7	8.070
OBSERVATIONS:	12	11	11			12	12			11	11	
EXCEEDANCES												
NO OF SAMPLES		20	21			36	41			18	21	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : IROQUOIS FALLS
PLANT : PORQUIS JUNCTION LAGOON
WORKS NUMBER : 120003290
TREATMENT : CONVENTIONAL LAGOON SEASONAL SINGLE CELL

DESIGN CAPACITY : 0.04 1000 m3
POPULATION SERVED : 176

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : STATION CR.TO MEADOW CR.
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.068	107.0	ND			130.0	ND			6.5	ND	
FEB	0.070	98.0	ND			99.0	ND			5.5	ND	
MAR	0.073	117.0	ND			76.0	ND			5.0	ND	
APR	0.090	95.0	ND			61.0	ND			5.1	ND	
MAY	0.074	153.0	23.8			127.0	114.5			3.2	1.3	
JUN	0.069	54.0	ND			80.0	ND			4.8	ND	
JUL	0.090	36.0	ND			47.0	ND			4.2	ND	
AUG	0.086	34.0	ND			60.0	ND			3.1	ND	
SEP	0.092	270.0	ND			290.0	ND			4.5	ND	
OCT	0.111	17.0	47.3			20.0	882.0			1.5	2.2	
NOV	0.100	ND	ND			110.0	ND			6.2	ND	
DEC	0.074	78.0	ND			100.0	ND			6.2	ND	
AVERAGE:	0.083	96.0	35.6 *		3.506	100.0	498.3 *		53.188	4.7	1.8	0.172
OBSERVATIONS:	12	11	2			12	2			12	2	
EXCEEDANCES												
NO OF SAMPLES		21	15			23	15			23	15	

COMPLIANCE :

BOD - NO
SS - NO
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED			88/12/31
MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER			88/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : JOGUES
PLANT : JOGUES LAGOON (IN OPERATION 1987)
WORKS NUMBER : 120002022
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH
SERIES OPERATION
DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 215

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRUNE CREEK
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KAPUSKASING
PLANT : BRUNETVILLE LAGOON
WORKS NUMBER : 120003012
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 2.06 1000 m3
POPULATION SERVED : 2100

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : (KAPUSKASING WPCP)
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.471	240.0	23.7		11.163	148.0	16.9		7.960	6.8	4.2 *	1.983
FEB	0.446	ND	63.5		28.321	ND	80.6		35.948	14.5	4.6 *	2.043
MAR	0.714	ND	87.0		62.118	ND	43.5		31.059	16.1	5.3 *	3.784
APR	0.836	414.0	14.3		11.955	ND	17.9		14.964	4.1	3.6 *	2.993
MAY	0.639	162.0	20.5		13.100	133.0	39.7		25.368	7.3	1.9 *	1.195
JUN	0.611	325.0	3.9		2.383	ND	15.8		9.654	6.9	1.6 *	0.996
JUL	ND	158.0	6.0		ND	136.0	42.2		ND	6.7	1.0	ND
AUG	ND	345.0	12.2		ND	230.0	36.0		ND	7.4	2.1 *	ND
SEP	0.758	193.0	10.6		8.035	248.0	36.6		27.743	6.5	1.9 *	1.417
OCT	0.904	108.0	9.2		8.317	107.0	14.9		13.470	4.4	3.0 *	2.730
NOV	0.817	129.0	7.5		6.127	73.0	25.4		20.752	7.2	3.4 *	2.810
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.688	230.0	23.5		16.835	154.0	33.6		20.769	8.0	3.0 *	2.217
OBSERVATIONS:	9	9	11			7	11			11	11	
EXCEEDANCES											10	
NO OF SAMPLES		9	21			7	19			12	22	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	86/01/01	88/12/31	
CONNECTION TO OTHER PLANT	88/05/01	88/11/30	88/11/30

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: KAPUSKASING	REGION	: NORTHEAST
PLANT	: KAPUSKASING WPCP	DISTRICT	: TIMMINS
WORKS NUMBER	: 110003004	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: EXTENDED AERATION	WATERCOURSE	: KAPUSKASING RIVER
		MAJOR BASIN	: ARCTIC WATERSHED
		MINOR BASIN	: JAMES BAY
DESIGN CAPACITY	: 9.09 1000 m3	IJC DESIGNATION	: NON IJC
POPULATION SERVED	: 12000		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.400	240.0	5.0		22.000	160.0	8.0		35.200	3.1	1.4	6.160
FEB	4.300	108.0	3.4		14.620	185.0	7.6		32.680	6.2	3.4	14.620
MAR	5.400	143.0	5.6		30.240	182.0	7.7		41.580	4.6	1.8	9.720
APR	7.161	84.0	2.4		17.186	118.0	4.8		34.373	4.2	1.8	12.890
MAY	5.860	197.0	1.6		9.376	142.0	4.6		26.956	9.6	1.9	11.134
JUN	5.641	62.0	6.8		38.359	112.0	6.2		34.974	3.8	2.4	13.313
JUL	5.177	113.0	1.0		5.177	99.0	6.3		32.615	5.0	1.7	8.801
AUG	5.953	57.0	0.9		5.358	107.0	6.8		40.480	3.3	1.9	11.013
SEP	4.963	66.0	1.9		9.430	151.0	5.2		25.808	3.6	3.0	14.889
OCT	6.855	74.0	0.9		6.170	127.0	2.6		17.823	4.5	1.8	12.339
NOV	6.323	72.0	0.5		3.162	133.0	3.2		20.234	3.1	1.4	8.852
DEC	5.171	97.0	3.6		18.616	146.0	3.8		19.650	3.2	2.2	11.376
AVERAGE:	5.600	109.0	2.8		14.975	138.0	5.6		30.198	4.5	2.1	11.259
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	24			101	90			20	21	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KIRKLAND LAKE
PLANT : KIRKLAND LAKE WPCP
WORKS NUMBER : 120000015
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 13.63 1000 m3
POPULATION SERVED : 12500

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MURDOCK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	12.200	29.0	10.1		123.220	48.0	12.8		156.160	2.5	0.8	9.760
FEB	12.800	28.0	4.1		52.480	59.0	10.6		135.680	2.8	0.6	7.680
MAR	14.800	44.0	3.2		47.360	46.0	9.9		146.520	3.0	0.6	8.880
APR	13.100	32.0	4.2		55.020	61.0	9.3		121.830	2.9	0.8	10.480
MAY	9.219	38.0	5.0		46.095	74.0	8.5		78.361	3.4	0.5	4.609
JUN	9.990	ND	ND		ND	87.0	9.7		96.903	1.4	0.2	1.598
JUL	9.639	42.0	7.0		67.473	89.0	10.0		96.390	1.8	0.4	4.145
AUG	7.139	52.0	3.8		27.128	97.0	7.6		54.256	3.4	1.1 *	7.639
SEP	7.023	28.0	11.0		77.253	113.0	10.1		70.932	2.1	0.6	4.003
OCT	9.042	56.0	4.0		36.168	92.0	21.8		197.116	2.9	0.8	6.962
NOV	7.487	57.0	13.0		97.331	82.0	6.3		47.168	2.3	0.7	5.316
DEC	10.348	52.0	6.2		64.158	56.0	9.0		93.132	2.5	0.7	6.726
AVERAGE:	10.232	42.0	6.5		63.062	75.0	10.5		107.871	2.6	0.6	6.483
OBSERVATIONS:	12	11	11			12	12			12	12	
EXCEEDANCES											1	
NO OF SAMPLES		22	20			103	112			94	85	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INPLANT SAMPLING PROGRAM IS BEING MODIFIED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KIRKLAND LAKE
PLANT : SWASTIKA WPCP
WORKS NUMBER : 120001942
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLANCHE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.39 1000 m3
POPULATION SERVED : 700

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	35.0	17.1		ND	31.0	15.4		ND	1.6	1.5	ND
FEB	ND	26.0	1.1		ND	33.0	10.8		ND	1.7	0.9	ND
MAR	ND	10.0	2.5		ND	21.0	16.6		ND	1.4	0.7	ND
APR	ND	14.0	8.7		ND	29.0	17.3		ND	1.1	1.2	ND
MAY	ND	63.0	2.8		ND	55.0	9.2		ND	4.7	0.7	ND
JUN	ND	60.0	1.4		ND	35.0	15.0		ND	3.1	0.4	ND
JUL	ND	46.0	3.2		ND	75.0	15.0		ND	4.9	2.4	ND
AUG	ND	80.0	1.2		ND	95.0	20.0		ND	6.3	1.1	ND
SEP	ND	104.0	2.0		ND	130.0	10.0		ND	5.5	1.9	ND
OCT	ND	130.0	1.6		ND	500.0	10.0		ND	5.5	1.7	ND
NOV	ND	78.0	2.0		ND	85.0	20.0		ND	4.3	1.1	ND
DEC	ND	58.0	ND		ND	50.0	ND		ND	3.1	ND	ND
AVERAGE:	0.000	59.0	4.0		0.000	95.0	14.5		0.000	3.6	1.2	0.000
OBSERVATIONS:	0	12	11			12	11			12	11	
EXCEEDANCES												
NO OF SAMPLES		12	11			12	11			12	11	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LARDER LAKE
PLANT : LARDER LAKE WPCP
WORKS NUMBER : 120000033
TREATMENT : PRIMARY

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LARDER LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.59 1000 m3
POPULATION SERVED : 1100

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	ND	400.0	32.0	92	ND	370.0	ND	100	ND	6.8	ND	ND
OCT	ND	35.0	ND	100	ND	120.0	ND	100	ND	2.4	ND	ND
NOV	ND	40.0	ND	100	ND	65.0	ND	100	ND	2.6	ND	ND
DEC	ND	64.0	ND	100	ND	150.0	ND	100	ND	4.5	ND	ND
AVERAGE:	0.000	135.0	32.0	98	0.000	176.0	0.0	100	0.000	4.1	0.0	0.000
OBSERVATIONS:	0	4	1			4	0			4	0	
EXCEEDANCES												
NO OF SAMPLES		4	2			4	0			4	0	

COMPLIANCE :	CRITERIA :
BOD - INSUFFICIENT DATA	BOD - 30%
SS - INSUFFICIENT DATA	SS - 50%
TP - INSUFFICIENT DATA	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE		88/12/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LATCHFORD
PLANT : LATCHFORD WPCP
WORKS NUMBER : 110001774
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MONTREAL RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.34 1000 m3
POPULATION SERVED : 427

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.266	71.0	6.8		1.809	47.0	22.9		6.091	3.6	2.2	0.580
FEB	0.283	49.0	20.0		5.660	85.0	29.1		8.235	2.8	2.7	0.761
MAR	0.317	96.0	22.7		7.196	160.0	44.8		14.202	6.6	3.0	0.948
APR	0.336	57.0	3.3		1.109	95.0	22.8		7.661	3.0	1.5	0.504
MAY	0.282	36.0	5.2		1.466	75.0	22.2		6.260	1.9	1.5	0.423
JUN	0.270	58.0	6.4		1.728	110.0	21.4		5.778	5.3	1.7	0.459
JUL	0.264	46.0	1.5		0.396	86.0	9.4		2.482	4.7	1.0	0.261
AUG	0.283	59.0	4.8		1.358	85.0	15.8		4.471	4.1	3.1	0.877
SEP	0.256	70.0	3.9		0.998	117.0	14.4		3.686	3.2	0.6	0.156
OCT	0.278	48.0	2.5		0.695	100.0	19.7		5.477	3.4	0.9	0.247
NOV	0.309	47.0	9.5		2.935	190.0	48.0		14.832	1.4	2.6	0.803
DEC	0.358	40.0	4.6		1.647	45.0	37.5		13.425	1.5	1.8	0.644
AVERAGE:	0.292	56.0	7.6		2.250	100.0	25.7 *		7.717	3.5	1.9	0.555
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		21	22			21	64			21	22	

COMPLIANCE :

BOD - YES
SS - NO
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED		88/01/31	
REDUCE WINTER BLEEDING		88/01/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LITTLE CURRENT
PLANT : LITTLE CURRENT LAGOON
WORKS NUMBER : 110000392
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DITCH TO GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.92 1000 m3
POPULATION SERVED : 1500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.780	ND	ND			ND	ND			ND	ND	
FEB	0.680	ND	ND			ND	ND			ND	ND	
MAR	0.940	10.0	ND			8.0	ND			3.9	ND	
APR	0.980	62.0	ND			75.0	ND			5.5	ND	
MAY	0.730	88.0	ND			90.0	ND			5.3	ND	
JUN	0.720	18.0	7.8			25.0	28.3			1.3	1.8	
JUL	0.710	30.0	ND			20.0	ND			1.8	ND	
AUG	0.710	18.0	ND			25.0	ND			1.7	ND	
SEP	0.700	ND	ND			ND	ND			ND	ND	
OCT	0.750	130.0	ND			130.0	ND			5.1	ND	
NOV	0.830	11.0	23.0			10.0	29.8			0.9	2.3	
DEC	1.460	110.0	ND			120.0	ND			4.9	ND	
AVERAGE:	0.833	53.0	15.4		12.353	56.0	29.1		22.555	3.4	2.0	1.564
OBSERVATIONS:12		9	2			9	2			9	2	
EXCEEDANCES												
NO OF SAMPLES		9	7			9	7			9	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MATTAWA
PLANT : MATTAWA LAGOON
WORKS NUMBER : 110000436
TREATMENT : EXFILTRATION LAGOON

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MATTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.24 1000 m3
POPULATION SERVED : 0

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/11/01	88/03/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	MATTICE-VAL-COTE	REGION	NORTHEAST
PLANT	MATTICE LAGOON	DISTRICT	TIMMINS
WORKS NUMBER	120001791	OPERATING AUTHORITY	MINISTRY
TREATMENT	CONVENTIONAL LAGOON SEASONAL	WATERCOURSE	TAILING PD TO LARDER L.
		MAJOR BASIN	ARCTIC WATERSHED
		MINOR BASIN	JAMES BAY
DESIGN CAPACITY	0.00 1000 m3	IJC DESIGNATION	INDIRECT
POPULATION SERVED	0		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l
TP - INSUFFICIENT DATA TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MCGARRY
PLANT : VIRGINIATOWN AND KEARNS WPCP
WORKS NUMBER : 120000024
TREATMENT : COMMUNAL SEPTIC TANK

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TAILING PD TO LARDER L.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.72 1000 m3
POPULATION SERVED : 1000

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	19.0	18.7	2	ND	22.0	17.0	23	ND	2.2	1.4	ND
FEB	ND	23.0	40.0	0	ND	18.0	20.4	0	ND	1.3	1.8	ND
MAR	ND	20.0	24.4	0	ND	55.0	24.9	55	ND	1.6	1.9	ND
APR	ND	43.0	21.7	50	ND	27.0	19.3	29	ND	1.5	1.1	ND
MAY	ND	10.0	10.6	0	ND	19.0	17.8	6	ND	1.2	1.6	ND
JUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND	10.0	9.0	10	ND	50.0	15.0	70	ND	1.1	1.0	ND
AUG	ND	32.0	13.0	59	ND	55.0	25.0	55	ND	1.9	1.1	ND
SEP	ND	13.0	11.0	15	ND	20.0	15.0	25	ND	1.2	0.8	ND
OCT	ND	195.0	34.0	83	ND	70.0	40.0	43	ND	1.9	1.6	ND
NOV	ND	50.0	12.0	76	ND	550.0	15.0	97	ND	2.7	0.8	ND
DEC	ND	20.0	18.0	10	ND	30.0	25.0	17	ND	1.1	1.2	ND
AVERAGE:	0.000	40.0	19.3	38	0.000	83.0	21.3	42 *	0.000	1.6	1.3	0.000
OBSERVATIONS:	0	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		11	11			11	11			11	11	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30%
SS - NO	SS - 50%
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MICHIPICOTEN
PLANT : WAWA LAGOON
WORKS NUMBER : 110000454
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAGPIE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 0.40 1000 m3
POPULATION SERVED : 0

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER CONSTRUCTION	86/12/01		
CONSTRUCTION COMPLETED		87/09/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOONBEAM
PLANT : MOONBEAM LAGOON
WORKS NUMBER : 110000230
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CREEK SYS TO GROUNDHOG R
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.65 1000 m3
POPULATION SERVED : 1000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.369	148.0	ND			169.0	ND			10.6	ND	
FEB	0.808	ND	ND			ND	ND			ND	ND	
MAR	0.219	213.0	ND			256.0	ND			9.4	ND	
APR	0.223	116.0	ND			120.0	ND			3.9	ND	
MAY	0.312	110.0	ND			150.0	ND			7.0	ND	
JUN	0.277	ND	ND			ND	ND			ND	ND	
JUL	0.233	220.0	ND			320.0	ND			5.3	ND	
AUG	0.286	ND	ND			ND	ND			ND	ND	
SEP	0.256	90.0	ND			130.0	ND			5.0	ND	
OCT	0.265	ND	ND			ND	ND			ND	ND	
NOV	0.268	ND	14.6			ND	23.0			ND	2.1	
DEC	0.242	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.313	150.0	14.6		3.913	191.0	23.0		6.164	6.9	2.1	0.563
OBSERVATIONS:12		6	1			6	1			6	1	
EXCEEDANCES												
NO OF SAMPLES		6	4			6	4			6	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (NORTH)
WORKS NUMBER : 120000319
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MOOSE RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.25 1000 m3
POPULATION SERVED : 300

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.220	55.0	7.8		1.716	68.0	16.1		3.542	2.2	0.3	0.059
FEB	0.229	45.0	14.8		3.389	36.0	15.6		3.572	1.8	0.4	0.098
MAR	0.218	16.0	4.0		0.872	22.0	7.0		1.526	1.4	0.6	0.133
APR	0.214	23.0	6.6		1.412	46.0	14.6		3.124	2.1	0.4	0.092
MAY	0.217	21.0	5.3		1.150	37.0	10.3		2.235	0.6	0.2	0.041
JUN	0.217	44.0	1.8		0.391	115.0	8.1		1.758	1.1	0.2	0.037
JUL	0.205	32.0	2.2		0.451	57.0	11.8		2.419	1.4	0.2	0.049
AUG	0.218	14.0	6.1		1.330	51.0	22.8		4.970	4.5	0.4	0.094
SEP	0.212	30.0	23.4		4.961	52.0	8.9		1.887	4.6	0.3	0.057
OCT	0.224	41.0	3.7		0.829	90.0	17.8		3.987	2.4	0.4	0.083
NOV	0.250	25.0	6.2		1.550	72.0	31.9		7.975	2.6	1.1	0.263
DEC	0.272	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.225	32.0	7.4		1.641	59.0	15.0		3.363	2.2	0.4	0.091
OBSERVATIONS:	12	11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		18	18			18	18			16	18	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (OLD TOWNSITE)
WORKS NUMBER : 110001060
TREATMENT : CONTACT STABILIZATION

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : STORE CK TO MOOSE RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.50 1000 m3
POPULATION SERVED : 1200

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.522	108.0	11.7		6.107	81.0	14.6		7.621	4.3	1.1	0.579
FEB	0.566	116.0	18.3		10.358	90.0	15.4		8.716	4.3	1.2	0.662
MAR	0.589	68.0	13.2		7.775	63.0	15.6		9.188	4.0	1.3	0.766
APR	0.673	79.0	39.3		26.449	114.0	31.5		21.200	4.7	1.8	1.238
MAY	0.592	157.0	55.0		32.560	146.0	13.0		7.696	4.2	5.0	2.942
JUN	0.547	398.0	30.2		16.519	317.0	18.7		10.229	8.8	1.1	0.585
JUL	0.540	25.0	2.4		1.296	195.0	5.3		2.862	5.3	0.2	0.113
AUG	0.537	425.0	ND		ND	327.0	ND		ND	ND	ND	ND
SEP	0.501	176.0	31.0		15.531	136.0	15.2		7.615	6.6	1.7	0.832
OCT	0.479	151.0	14.8		7.089	187.0	20.0		9.580	4.2	1.4	0.661
NOV	0.585	208.0	8.0		4.680	200.0	5.3		3.100	7.0	1.2	0.720
DEC	0.513	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.554	174.0	22.4		12.836	169.0	15.5		8.781	5.3	1.6	0.910
OBSERVATIONS:12		11	10			11	10			10	10	
EXCEEDANCES												
NO OF SAMPLES		19	18			19	18			18	18	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/04/01	87/07/31	
PROCESS CONTROL IMPROVEMENTS UNDERWAY		87/11/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NEW LISKEARD
PLANT : NEW LISKEARD LAGOON
WORKS NUMBER : 110000515
TREATMENT : AERATED CELL PLUS LAGOON
CONTINUOUS DISCHARGE
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.50 1000 m3
POPULATION SERVED : 5500

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : WABI RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.981	138.0	5.6		16.694	109.0	7.8		23.252	6.1	3.1 *	9.301
FEB	2.886	110.0	17.8		51.371	95.0	7.3		21.068	6.0	1.3 *	3.723
MAR	5.047	71.0	19.0		95.893	71.0	11.6		58.545	4.5	3.9 *	19.532
APR	5.221	63.0	18.0		93.978	71.0	20.0		104.420	3.5	2.7 *	14.097
MAY	4.247	80.0	26.7		113.395	122.0	41.5		176.250	5.1	1.5 *	6.201
JUN	3.883	78.0	4.1		15.920	105.0	7.0		27.181	4.9	1.4 *	5.281
JUL	3.879	69.0	3.4		13.189	108.0	9.0		34.911	4.8	0.8	3.064
AUG	3.048	82.0	1.6		4.877	130.0	4.3		13.106	5.7	0.5	1.433
SEP	3.157	93.0	1.4		4.420	136.0	1.0		3.157	5.6	0.4	1.389
OCT	3.415	75.0	1.1		3.757	119.0	6.5		22.198	4.5	0.2	0.649
NOV	3.744	108.0	2.2		8.237	168.0	4.0		14.976	5.7	0.4	1.610
DEC	3.773	70.0	4.9		18.488	77.0	4.0		15.092	4.6	0.5	1.698
AVERAGE:	3.773	86.0	8.8		36.685	109.0	10.3		42.846	5.1	1.4 *	5.665
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	0			23	0			23	0	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILITY OPERATIONAL		87/07/31	87/08/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NICKEL CENTRE
PLANT : CONISTON WPCP
WORKS NUMBER : 110000123
TREATMENT : OXIDATION DITCH
CONVENTIONAL ACTIVATED SLUDGE

DESIGN CAPACITY : 3.00 1000 m3
POPULATION SERVED : 2360

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CONISTON CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.953	108.0	113.1		107.784	138.0	74.0		70.522	5.9	6.7	6.385
FEB	0.999	180.0	30.2		30.170	132.0	40.5		40.459	4.9	3.5	3.497
MAR	1.332	112.0	4.4		5.861	119.0	14.2		18.914	5.9	2.3	3.064
APR	1.380	130.0	2.9		4.002	73.0	8.7		12.006	2.5	1.5	2.070
MAY	1.242	125.0	1.2		1.490	106.0	7.4		9.191	4.5	2.6	3.229
JUN	0.994	107.0	1.6		1.590	131.0	4.4		4.374	3.0	2.1	2.087
JUL	0.759	125.0	4.8		3.643	163.0	3.6		2.732	6.2	3.2	2.429
AUG	0.687	110.0	3.0		2.061	169.0	2.5		1.718	6.4	3.0	2.061
SEP	0.893	125.0	3.9		3.483	195.0	3.9		3.483	6.3	2.9	2.590
OCT	1.304	106.0	8.0		10.432	129.0	4.9		6.390	4.8	2.3	2.999
NOV	1.250	100.0	3.3		4.125	194.0	3.5		4.375	5.1	3.0	3.750
DEC	1.744	73.0	4.2		7.325	105.0	3.8		6.627	4.2	1.5	2.616
AVERAGE:	1.128	117.0	15.1		15.164	138.0	14.3		15.066	5.0	2.9	3.065
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	29			169	187			24	30	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NICKEL CENTRE
PLANT : FALCONBRIDGE TOWNSITE WPCP
WORKS NUMBER : 120001158
TREATMENT : TRICKLING FILTER

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOUCHER L TO CONISTON CR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.45 1000 m3
POPULATION SERVED : 910

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	117.0	67.0		ND	117.0	39.2		ND	5.1	3.6	ND
FEB	0.474	232.0	30.7		14.552	162.0	26.5		12.561	8.3	3.0	1.413
MAR	0.622	83.0	32.5		20.215	87.0	27.9		17.354	4.0	2.7	1.655
APR	0.748	87.0	30.3		22.664	133.0	30.6		22.889	4.2	3.0	2.237
MAY	0.739	72.0	31.7		23.426	139.0	38.7		28.599	3.5	3.5	2.550
JUN	0.807	87.0	29.1		23.484	91.0	34.6		27.922	4.3	4.8	3.866
JUL	0.336	35.0	20.0		16.720	73.0	32.3		27.003	3.0	2.7	2.215
AUG	0.728	59.0	15.5		11.284	79.0	25.1		18.273	3.4	2.6	1.893
SEP	0.798	65.0	17.5		13.965	67.0	22.7		18.115	2.6	2.2	1.716
OCT	0.723	99.0	31.0		22.413	97.0	26.0		18.798	4.8	3.1	2.205
NOV	0.687	180.0	27.0		18.549	106.0	39.0		26.793	5.2	2.9	1.958
DEC	0.789	68.0	20.5		16.175	127.0	32.2		25.406	4.6	2.6	2.051
AVERAGE:	0.723	99.0	29.4 *		18.495	106.0	31.2 *		22.156	4.4	3.0	2.160
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	24			151	157			32	24	

COMPLIANCE :

BOD - NO
SS - NO
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	88/04/01	87/07/31	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NICKEL CENTRE
PLANT : GARSON LAGOON (STANDBY)
WORKS NUMBER : 120004887
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FLOW TO SUDBURY WPCP
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.45 1000 m3
POPULATION SERVED : 4714

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	1.161	ND	ND			ND	ND			ND	ND	
APR	0.684	188.0	ND			104.0	ND			6.5	ND	
MAY	0.604	ND	ND			ND	ND			ND	ND	
JUN	ND	88.0	ND			81.0	ND			4.7	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	1.3			ND	5.7			ND	1.8	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.816	138.0	1.3		0.000	92.0	5.7		0.000	5.6	1.8	0.000
OBSERVATIONS:	3	2	1			2	1			2	1	
EXCEEDANCES												
NO OF SAMPLES		2	3			2	3			2	3	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NICKEL CENTRE
PLANT : WAHNAPITAE LAGOON
WORKS NUMBER : 120003156
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WANAPITEI RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.33 1000 m3
POPULATION SERVED : 2020

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.481	ND	ND			ND	ND			ND	ND	
FEB	0.389	ND	ND			ND	ND			ND	ND	
MAR	0.505	ND	ND			ND	ND			ND	ND	
APR	0.697	28.0	ND			202.0	ND			1.3	ND	
MAY	0.539	ND	ND			ND	ND			ND	ND	
JUN	0.388	ND	ND			ND	ND			ND	ND	
JUL	0.387	ND	ND			ND	ND			ND	ND	
AUG	0.356	ND	ND			ND	ND			ND	ND	
SEP	0.706	ND	ND			ND	ND			ND	ND	
OCT	0.507	ND	1.4			ND	3.3			ND	0.1	
NOV	0.398	ND	ND			ND	ND			ND	ND	
DEC	0.525	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.490	28.0	1.4		0.710	202.0	3.3		1.673	1.3	0.1	0.030
OBSERVATIONS:	12	1	1			1	1			1	1	
EXCEEDANCES												
NO OF SAMPLES		1	3			1	3			1	3	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORTH BAY
PLANT : NORTH BAY WPCP
WORKS NUMBER : 110000533
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 48000

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE NIPISSING
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	26.650	457.0	23.5		626.275	841.0	9.5		253.175	23.1	1.7 *	44.239
FEB	24.150	543.0	40.6		980.490	1144.0	11.1		268.065	19.0	1.7 *	39.847
MAR	34.210	338.0	12.3		420.783	926.0	21.9		749.199	7.0	1.1 *	37.631
APR	34.050	198.0	20.0		681.000	434.0	9.8		333.690	11.6	0.7	23.835
MAY	29.290	681.0	34.7		1016.363	1114.0	19.0		556.510	33.7	1.2 *	34.562
JUN	33.476	691.0	24.1		806.772	729.0	14.4		482.054	13.2	1.4 *	46.866
JUL	25.425	366.0	18.0		457.650	620.0	18.0		457.650	13.2	1.1 *	27.713
AUG	21.455	188.0	11.8		253.169	390.0	11.8		253.169	12.8	1.1 *	23.171
SEP	18.314	117.0	3.6		65.930	355.0	11.6		212.442	7.1	0.9	16.299
OCT	27.593	202.0	8.8		242.818	555.0	10.0		275.930	13.5	0.8	22.074
NOV	31.886	173.0	9.6		306.106	586.0	10.6		337.992	10.8	0.8	26.784
DEC	29.053	131.0	11.1		322.488	656.0	9.8		284.719	17.9	0.6	18.303
AVERAGE:	27.963	340.0	18.2		514.987	696.0	13.1		372.050	15.2	1.1 *	30.110
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											7	
NO OF SAMPLES		44	43			225	231			44	50	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	87/04/01	87/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NORTH HIMSWORTH
PLANT : CALLANDER LAGOON
WORKS NUMBER : 110001747
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.47 1000 m3
POPULATION SERVED : 1220

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : DITCH TO CALLANDER BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.575	115.0	ND			136.0	ND			7.0	ND	
FEB	0.232	281.0	ND			353.0	ND			7.4	ND	
MAR	0.615	85.0	11.3			95.0	16.4			5.2	1.8 *	
APR	0.673	97.0	8.8			135.0	13.3			4.0	0.4	
MAY	0.679	117.0	ND			145.0	ND			5.6	ND	
JUN	0.775	91.0	ND			130.0	ND			6.2	ND	
JUL	1.011	95.0	ND			105.0	ND			6.7	ND	
AUG	0.751	88.0	ND			92.0	ND			5.7	ND	
SEP	0.458	104.0	ND			130.0	ND			6.0	ND	
OCT	0.653	113.0	2.5			165.0	4.5			7.2	0.5	
NOV	0.586	125.0	ND			140.0	ND			6.9	ND	
DEC	0.629	102.0	ND			130.0	ND			5.2	ND	
AVERAGE:	0.636	118.0	7.5		4.835	146.0	11.4		7.325	6.1	0.9	0.578
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES											1	
NO OF SAMPLES		20	8			20	8			20	8	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	87/07/31	87/11/30	
UNDER CONSTRUCTION	88/05/01	89/04/01	
CONSTRUCTION COMPLETED		90/04/01	90/05/01

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ONAPING FALLS
PLANT : DOWLING WPCP
WORKS NUMBER : 110003077
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 2.08 1000 m3
POPULATION SERVED : 1889

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ONAPING RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.700	43.0	7.9		13.430	44.0	4.7		7.990	2.6	1.4	2.312
FEB	1.718	58.0	11.2		19.242	41.0	5.0		8.590	2.9	1.4	2.405
MAR	1.740	51.0	4.6		8.004	59.0	4.7		8.178	2.8	1.4	2.384
APR	1.862	39.0	16.1		29.978	45.0	8.0		14.896	2.3	1.3	2.365
MAY	1.814	52.0	9.1		16.507	48.0	10.8		19.591	2.7	1.5	2.685
JUN	1.774	34.0	9.0		15.966	47.0	7.8		13.837	3.0	1.5	2.714
JUL	1.774	35.0	11.7		20.756	39.0	11.2		19.869	3.1	1.7	2.963
AUG	1.900	39.0	7.9		15.010	56.0	8.1		15.390	3.1	1.7	3.230
SEP	1.678	45.0	3.0		5.034	48.0	9.8		16.444	3.1	1.6	2.685
OCT	1.627	48.0	6.6		10.738	58.0	8.9		14.480	2.4	1.5	2.441
NOV	1.600	46.0	6.2		9.920	44.0	6.4		10.240	2.8	1.6	2.560
DEC	1.488	61.0	4.9		7.291	65.0	7.4		11.011	2.7	1.4	2.009
AVERAGE:	1.723	46.0	8.2		14.323	50.0	7.7		13.376	2.8	1.5	2.563
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	25			169	169			24	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING	88/04/30		1990

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ONAPING FALLS
PLANT : LEVACK WPCP
WORKS NUMBER : 120001194
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ONAPING RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.58 1000 m3
POPULATION SERVED : 2008

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.137	105.0	7.8		8.869	133.0	5.6		6.367	5.9	3.4	3.900
FEB	1.170	134.0	10.5		12.285	64.0	3.3		3.861	6.1	3.5	4.142
MAR	1.224	102.0	13.0		15.912	92.0	7.0		8.568	6.2	3.3	4.076
APR	1.211	156.0	13.0		15.743	173.0	8.7		10.536	6.6	3.5	4.190
MAY	1.061	105.0	5.2		5.517	64.0	5.0		5.305	4.8	3.3	3.469
JUN	0.956	129.0	4.6		4.398	164.0	10.3		9.847	7.1	3.5	3.308
JUL	1.040	53.0	3.7		3.848	176.0	6.3		6.552	6.1	3.4	3.484
AUG	1.260	61.0	2.8		3.528	87.0	3.6		4.536	5.3	3.0	3.717
SEP	1.368	87.0	1.5		2.052	101.0	8.0		10.944	6.4	2.7	3.694
OCT	1.374	86.0	2.7		3.710	116.0	8.5		11.679	4.3	2.4	3.298
NOV	1.348	61.0	3.9		5.257	52.0	4.9		6.605	4.0	2.9	3.909
DEC	1.411	121.0	11.5		16.227	86.0	10.0		14.110	4.3	2.8	3.880
AVERAGE:	1.213	100.0	6.7		8.112	109.0	6.8		8.243	5.6	3.1	3.756
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	25			170	171			24	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ONAPING FALLS
PLANT : ONAPING WPCP
WORKS NUMBER : 120001149
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SWAMP TO ONAPING RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 907

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.600	95.0	18.5		11.100	94.0	6.9		4.140	5.4	3.0	1.788
FEB	0.600	68.0	30.1		18.060	43.0	8.6		5.160	3.3	3.6	2.172
MAR	0.595	64.0	18.8		11.186	78.0	8.6		5.117	3.2	3.0	1.803
APR	0.600	96.0	5.9		3.540	88.0	7.5		4.500	4.5	3.4	2.016
MAY	0.600	92.0	9.2		5.520	72.0	6.3		3.780	5.8	3.6	2.160
JUN	0.600	89.0	8.5		5.100	137.0	20.9		12.540	6.1	4.0	2.394
JUL	0.584	141.0	10.5		6.132	121.0	15.1		8.818	4.4	3.5	2.044
AUG	0.543	87.0	7.9		4.290	104.0	6.2		3.367	6.6	3.7	2.009
SEP	0.547	88.0	9.5		5.197	112.0	6.4		3.501	6.1	3.7	1.997
OCT	0.540	95.0	7.5		4.050	133.0	16.2		8.748	6.3	3.5	1.863
NOV	0.530	95.0	11.0		5.830	116.0	6.5		3.445	5.8	3.9	2.041
DEC	0.541	148.0	6.6		3.571	98.0	6.9		3.733	7.1	3.6	1.921
AVERAGE:	0.573	96.0	12.0		6.965	100.0	9.7		5.571	5.4	3.5	2.017
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		27	25			173	172			26	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/01/31	89/06/31	1989

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: OPASATIKA	REGION	: NORTHEAST
PLANT	: OPASATIKA LAGOON	DISTRICT	: TIMMINS
WORKS NUMBER	: 120000658	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH	WATERCOURSE	: OPASATIKA RIVER
		MAJOR BASIN	: ARCTIC WATERSHED
		MINOR BASIN	: JAMES BAY
DESIGN CAPACITY	: 0.00 1000 m3	IJC DESIGNATION	: NON IJC
POPULATION SERVED	: 0		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :	CRITERIA :
BOD - INSUFFICIENT DATA	BOD - 30 mg/l
SS - INSUFFICIENT DATA	SS - 40 mg/l
TP - INSUFFICIENT DATA	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATOR TRAINING IS BEING PROVIDED	88/02/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : PARRY SOUND
PLANT : PARRY SOUND WPCP
WORKS NUMBER : 110000560
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 6.59 1000 m3
POPULATION SERVED : 5500

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MC CURRY LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	4.320	118.0	6.2		26.784	99.0	3.2		13.824	5.3	0.6	2.722
FEB	4.010	114.0	10.7		42.907	84.0	4.5		18.045	5.0	0.9	3.769
MAR	8.170	92.0	15.3		125.001	80.0	2.8		22.876	3.5	0.6	4.657
APR	8.670	56.0	4.0		34.680	79.0	4.4		38.148	3.1	0.7	5.896
MAY	6.220	76.0	12.6		78.372	177.0	9.5		59.090	3.3	1.0	5.909
JUN	6.524	106.0	15.9		103.732	131.0	10.0		65.240	5.0	0.9	5.676
JUL	5.840	114.0	1.6		9.344	157.0	3.2		18.688	5.5	0.6	3.679
AUG	6.074	47.0	3.0		18.222	110.0	2.6		15.792	5.0	0.8	4.738
SEP	5.451	89.0	10.7		58.326	136.0	8.1		44.153	4.7	0.9	4.797
OCT	6.941	92.0	9.5		65.939	206.0	7.2		49.975	4.5	0.6	4.026
NOV	7.691	99.0	6.1		46.915	104.0	7.4		56.913	3.8	0.8	6.230
DEC	10.139	67.0	4.4		44.612	84.0	7.1		71.987	3.8	0.7	7.097
AVERAGE:	6.671	89.0	8.3		54.569	121.0	5.8		39.561	4.4	0.8	4.933
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		59	60			70	69			70	63	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : POWASSAN
PLANT : POWASSAN LAGOON
WORKS NUMBER : 110000613
TREATMENT : CONVENTIONAL LAGOON SEASONAL
PHOSPHORUS REMOVAL - BATCH
REGULATED DISCHARGE VOLUME
DESIGN CAPACITY : 0.84 1000 m3
POPULATION SERVED : 1100

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GENESEE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.595	ND	ND			ND	ND			ND	ND	
FEB	0.456	ND	ND			ND	ND			ND	ND	
MAR	1.062	112.0	ND			106.0	ND			4.7	ND	
APR	0.930	56.0	ND			40.0	ND			4.4	ND	
MAY	1.012	ND	ND			ND	ND			ND	ND	
JUN	0.962	ND	16.2			ND	13.0			ND	0.7	
JUL	0.820	68.0	ND			85.0	ND			5.6	ND	
AUG	0.704	32.0	ND			100.0	ND			3.1	ND	
SEP	0.677	ND	ND			ND	ND			ND	ND	
OCT	0.864	100.0	ND			140.0	ND			5.2	ND	
NOV	0.801	ND	ND			ND	ND			ND	ND	
DEC	0.694	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.798	74.0	16.2		15.584	94.0	13.0		12.506	4.6	0.7	0.693
OBSERVATIONS:	12	5	1			5	1			5	1	
EXCEEDANCES												
NO OF SAMPLES		5	2			5	1			5	2	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RATTER & DUNNET
PLANT : WARREN LAGOON
WORKS NUMBER : 110001916
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : VEUVE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 612

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.137	62.0	ND			67.0	ND			3.3	ND	
FEB	0.235	125.0	ND			103.0	ND			16.3	ND	
MAR	0.289	78.0	ND			54.0	ND			2.5	ND	
APR	0.338	41.0	ND			46.0	ND			4.7	ND	
MAY	0.372	29.0	ND			36.0	ND			2.6	ND	
JUN	0.210	ND	ND			ND	ND			ND	ND	
JUL	0.203	32.0	ND			60.0	ND			2.4	ND	
AUG	0.188	68.0	ND			52.0	ND			3.7	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	0.217	73.0	ND			87.0	ND			8.2	ND	
DEC	0.269	101.0	ND			71.0	ND			4.9	ND	
AVERAGE:	0.246	68.0	0.0		0.000	64.0	0.0		0.000	5.4	0.0	0.000
OBSERVATIONS:	10	9	0			9	0			9	0	
EXCEEDANCES												
NO OF SAMPLES		13	0			13	0			13	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : AZILDA WPCP
WORKS NUMBER : 110001783
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.84 1000 m3
POPULATION SERVED : 4197

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.961	126.0	15.6		14.992	82.0	5.0		4.805	4.7	0.8	0.769
FEB	1.011	120.0	7.5		7.582	79.0	7.3		7.380	3.4	0.5	0.505
MAR	1.603	92.0	15.2		24.366	91.0	4.7		7.534	4.0	0.4	0.641
APR	2.979	23.0	5.0		14.895	31.0	5.1		15.193	1.2	0.8	2.294
MAY	2.009	57.0	7.5		15.067	42.0	5.8		11.652	3.3	0.7	1.366
JUN	1.659	45.0	5.0		8.295	83.0	4.1		6.802	2.9	0.4	0.630
JUL	1.264	91.0	0.9		1.138	84.0	3.8		4.803	3.9	0.6	0.733
AUG	1.545	90.0	1.4		2.163	77.0	5.2		8.034	3.8	0.5	0.742
SEP	1.907	108.0	1.5		2.861	94.0	6.0		11.442	4.4	0.7	1.316
OCT	1.752	93.0	1.9		ND	88.0	3.7		ND	3.0	0.6	ND
NOV	2.060	90.0	2.3		4.738	74.0	6.5		13.390	4.0	0.6	1.236
DEC	2.428	142.0	2.0		4.856	76.0	4.6		11.169	2.2	0.3	0.728
AVERAGE:	1.765	90.0	5.5		9.178	75.0	5.2		9.291	3.4	0.6	0.996
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	22			151	152			140	139	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD LAGOON
WORKS NUMBER : 120001176
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MCKENZIE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.82 1000 m3
POPULATION SERVED : 2697

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.120	ND	ND			ND	ND			ND	ND	
FEB	1.067	ND	ND			ND	ND			ND	ND	
MAR	1.161	ND	ND			ND	ND			ND	ND	
APR	1.873	ND	23.0			ND	15.1			ND	4.1	
MAY	1.531	92.0	21.7			55.0	17.1			5.4	3.2	
JUN	1.711	ND	ND			ND	ND			ND	ND	
JUL	1.068	ND	ND			ND	ND			ND	ND	
AUG	1.030	ND	ND			ND	ND			ND	ND	
SEP	1.474	ND	ND			ND	ND			ND	ND	
OCT	1.168	96.0	1.9			80.0	1.5			6.0	1.9	
NOV	1.522	144.0	13.7			130.0	23.3			6.3	4.9	
DEC	2.200	ND	ND			ND	ND			ND	ND	
AVERAGE:	1.410	111.0	15.1		24.843	88.0	14.3		22.919	5.9	3.5	5.520
OBSERVATIONS:	12	3	4			3	4			3	4	
EXCEEDANCES												
NO OF SAMPLES		6	16			6	17			6	18	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD WPCP
WORKS NUMBER : 120001568
TREATMENT : EXTENDED AERATION
CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 2.80 1000 m3
POPULATION SERVED : 4352

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.980	84.0	3.2		9.536	84.0	6.8		20.264	4.6	0.7	2.056
FEB	2.442	64.0	9.1		22.222	146.0	7.1		17.338	5.3	1.0	2.369
MAR	3.843	106.0	6.6		25.364	128.0	9.6		36.893	5.4	0.6	2.152
APR	5.255	344.0	4.1		21.545	134.0	6.5		34.157	4.5	0.5	2.365
MAY	3.636	338.0	2.9		10.544	158.0	7.7		27.997	4.4	0.5	1.745
JUN	2.440	35.0	2.2		5.368	110.0	4.9		11.956	4.2	0.4	0.854
JUL	2.266	57.0	1.4		3.172	73.0	4.7		10.650	3.2	0.2	0.363
AUG	2.499	53.0	1.9		4.748	75.0	6.0		14.994	2.9	0.2	0.600
SEP	2.669	119.0	4.0		10.676	150.0	4.4		11.744	2.3	0.2	0.480
OCT	2.149	87.0	1.4		3.009	89.0	3.7		7.951	4.8	0.4	0.774
NOV	2.710	158.0	4.0		10.840	131.0	4.1		11.111	3.9	0.2	0.542
DEC	3.547	106.0	3.6		12.769	146.0	4.0		14.188	4.3	0.2	0.674
AVERAGE:	3.036	129.0	3.7		11.649	119.0	5.8		18.270	4.1	0.4	1.248
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			160	164			158	161	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SAULT STE MARIE
PLANT : SAULT STE.MARIE WPCP
WORKS NUMBER : 110000640
TREATMENT : PRIMARY

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST. MARY'S RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 54.55 1000 m3
POPULATION SERVED : 75000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	22.564	212.0	81.3	62	1834.453	191.0	38.5	80	868.714	5.4	4.0	90.707
FEB	22.128	145.0	65.5	55	1449.384	159.0	40.5	75	896.184	5.8	3.8	84.086
MAR	33.542	225.0	51.8	77	1737.476	171.0	31.7	81	1063.281	5.0	2.1	71.109
APR	31.353	199.0	61.7	69	1934.480	191.0	34.2	82	1072.273	5.4	3.0	92.491
MAY	30.546	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	30.390	299.0	81.5	73	2476.785	321.0	52.7	84	1601.553	4.7	5.0	152.558
JUL	34.045	142.0	71.5	50	2434.218	128.0	39.3	69	1337.968	5.4	4.1	140.265
AUG	37.490	140.0	69.3	50	2598.057	157.0	34.5	78	1293.405	3.8	3.4	127.091
SEP	33.288	172.0	58.1	66	1934.033	165.0	40.0	76	1331.520	4.5	3.2	106.854
OCT	34.732	127.0	68.0	46	2361.776	140.0	46.0	67	1597.672	5.0	3.5	122.257
NOV	39.669	210.0	61.7	71	2447.577	188.0	30.5	84	1209.904	3.9	2.8	111.073
DEC	34.536	152.0	57.0	62	1968.552	155.0	39.0	75	1346.904	4.3	2.6	90.484
AVERAGE:	32.024	184.0	66.1	62	2106.981	179.0	38.8	77	1238.125	4.8	3.4	108.089
OBSERVATIONS:12		11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		35	36			41	41			38	37	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	86/09/30	87/01/31	
UNDER CONSTRUCTION	87/06/01		

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SAULT STE MARIE
PLANT : WEST END WPCP IN OP 1986
WORKS NUMBER : 110002540
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 0

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST MARY'S RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	6.567	382.0	18.8		123.460	251.0	22.5		147.757	8.5	0.8	5.254
FEB	5.624	241.0	17.1		96.170	187.0	26.7		150.161	6.5	1.2 *	6.468
MAR	8.734	176.0	16.5		144.111	146.0	19.9		173.807	4.2	0.5	3.930
APR	6.510	180.0	7.3		47.523	262.0	2.7		17.577	4.0	0.9	5.924
MAY	6.220	103.0	18.0		111.960	112.0	4.0		24.880	3.4	1.0	5.971
JUN	5.760	82.0	10.2		58.752	87.0	4.4		25.344	2.3	2.1 *	11.866
JUL	6.794	65.0	4.8		32.611	111.0	3.8		25.817	4.4	0.8	5.707
AUG	7.136	101.0	11.4		81.350	88.0	5.0		35.680	2.6	0.7	4.995
SEP	5.138	238.0	9.9		50.866	205.0	7.6		39.049	5.4	0.6	3.288
OCT	6.765	216.0	6.6		44.649	232.0	2.0		13.530	6.2	0.6	4.194
NOV	6.001	288.0	6.2		37.206	365.0	2.8		16.803	6.4	0.7	3.961
DEC	8.587	842.0	11.0		94.457	511.0	2.1		18.033	5.2	0.5	3.864
AVERAGE:	6.653	243.0	11.5		76.926	213.0	8.6		57.370	4.9	0.9	5.452
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		39	39			47	46			41	43	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SMOOTH ROCK FALLS
PLANT : SMOOTH ROCK FALLS WPCP
WORKS NUMBER : 110002130
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MATTAGAMI RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.63 1000 m3
POPULATION SERVED : 2251

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.434	111.0	5.2		7.457	98.0	7.5		10.755	5.7	2.2	3.169
FEB	1.765	69.0	4.9		8.649	66.0	5.8		10.237	3.5	1.9	3.424
MAR	2.333	76.0	4.0		9.332	76.0	6.6		15.398	3.2	1.6	3.616
APR	3.041	31.0	1.2		3.649	ND	7.4		22.503	1.8	1.0	3.041
MAY	2.239	46.0	2.6		5.821	40.0	7.2		16.121	2.2	1.7	3.873
JUN	2.012	29.0	2.1		4.225	30.0	8.0		16.096	1.5	1.6	3.219
JUL	2.229	38.0	0.6		1.337	35.0	4.5		10.030	2.7	1.9	4.235
AUG	1.952	18.0	2.2		4.294	20.0	15.5		30.256	1.3	1.8	3.514
SEP	2.079	21.0	0.7		1.455	37.0	1.0		2.079	1.4	1.7	3.430
OCT	3.153	17.0	1.1		3.468	22.0	5.0		15.765	0.9	0.9	2.838
NOV	2.465	78.0	1.2		2.958	122.0	4.5		11.092	2.8	1.7	4.190
DEC	2.040	74.0	1.3		2.652	65.0	4.3		8.772	3.6	2.0	4.080
AVERAGE:	2.228	51.0	2.3		4.608	56.0	6.4		14.092	2.6	1.7	3.552
OBSERVATIONS:12		12	12			11	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	23			23	24			24	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : STURGEON FALLS
PLANT : STURGEON FALLS WPCP
WORKS NUMBER : 110001435
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : STURGEON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 6040

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	3.423	73.0	5.9		20.196	85.0	6.8		23.276	3.8	1.1 *	3.594
FEB	2.927	100.0	4.5		13.171	103.0	6.8		19.904	4.4	1.1 *	3.249
MAR	4.975	65.0	4.7		23.383	84.0	6.1		30.347	2.9	0.4	1.890
APR	5.727	65.0	4.7		26.917	59.0	4.8		27.490	3.0	0.4	2.176
MAY	4.377	74.0	11.0		48.147	60.0	5.6		24.511	3.0	0.5	2.145
JUN	3.897	63.0	6.9		26.889	132.0	4.7		18.316	4.1	0.7	2.572
JUL	3.331	69.0	12.7		42.304	136.0	5.1		16.988	5.0	0.7	2.465
AUG	3.022	79.0	3.5		10.577	96.0	6.0		18.132	4.4	1.4 *	4.201
SEP	3.904	73.0	5.3		20.691	108.0	7.7		30.061	4.1	1.0	3.787
OCT	4.335	61.0	4.1		17.773	73.0	5.5		23.843	3.6	0.8	3.251
NOV	4.650	60.0	2.8		13.020	79.0	4.2		19.530	3.1	0.5	2.372
DEC	4.839	65.0	5.6		27.098	90.0	4.6		22.259	3.1	0.5	2.178
AVERAGE:	4.117	71.0	6.0		24.181	92.0	5.7		22.888	3.7	0.7	2.823
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		18	18			49	49			19	19	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CHEMICAL FEED PUMP INSTALLED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SUDBURY
PLANT : SUDBURY WPCP
WORKS NUMBER : 110000711
TREATMENT : HIGH RATE

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : JUNCTION CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 68.19 1000 m3
POPULATION SERVED : 95000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	45.080	150.0	18.7		842.996	104.0	9.2		414.736	4.7	2.5	110.897
FEB	45.190	108.0	24.4		1102.636	102.0	8.7		393.153	3.7	2.6	115.686
MAR	62.170	107.0	11.2		696.304	84.0	7.6		472.492	4.7	2.6	159.155
APR	59.190	51.0	5.0		295.950	92.0	5.0		295.950	2.7	1.7	98.847
MAY	53.260	102.0	8.8		468.688	114.0	7.2		383.472	4.2	2.3	124.628
JUN	47.610	86.0	3.8		180.918	108.0	7.7		366.597	4.2	2.3	110.455
JUL	43.710	86.0	6.9		301.599	109.0	6.7		292.857	4.1	2.7	118.017
AUG	42.360	85.0	7.0		296.520	128.0	7.7		326.172	5.3	2.5	105.900
SEP	43.760	120.0	11.0		481.360	140.0	8.3		363.208	4.5	1.8	76.580
OCT	46.010	80.0	17.0		782.170	119.0	10.0		460.100	4.2	2.9	132.509
NOV	46.320	98.0	18.0		833.760	122.0	12.2		565.104	3.5	2.5	115.337
DEC	52.990	114.0	15.0		794.850	106.0	9.2		487.508	3.5	0.8	43.982
AVERAGE:	48.971	99.0	12.2		589.813	111.0	8.3		401.779	4.1	2.3	109.333
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	28			172	179			39	46	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NEW EQUIPMENT IS BEING INSTALLED	87/06/01	88/01/01	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SUNDRIDGE
PLANT : SUNDRIDGE LAGOON
WORKS NUMBER : 110001961
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.65 1000 m3
POPULATION SERVED : 740

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BERNARD CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.510	79.0	ND			39.0	ND			8.3	ND	
FEB	0.480	93.0	ND			53.0	ND			5.2	ND	
MAR	0.545	127.0	ND			139.0	ND			4.5	ND	
APR	0.785	68.0	ND			48.0	ND			1.9	ND	
MAY	0.690	88.0	9.5			58.0	22.0			5.0	0.4	
JUN	0.653	114.0	8.9			80.0	9.6			7.9	0.7	
JUL	0.568	78.0	ND			42.0	ND			4.9	ND	
AUG	0.576	64.0	ND			45.0	ND			4.8	ND	
SEP	0.518	75.0	ND			72.0	ND			5.8	ND	
OCT	0.562	86.0	ND			55.0	ND			5.1	ND	
NOV	0.568	60.0	4.7			60.0	6.4			3.9	0.3	
DEC	0.647	54.0	ND			98.0	ND			4.0	ND	
AVERAGE:	0.592	82.0	7.7		5.012	66.0	12.7		8.361	5.1	0.5	0.320
OBSERVATIONS:	12	12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		18	4			17	4			17	4	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TEMAGAMI
PLANT : NORTH GOWARD LAGOON
WORKS NUMBER : 120000783
TREATMENT : AERATED CELL PLUS LAGOON
REGULATED DISCHARGE VOLUME
EFFLUENT POLISHING
DESIGN CAPACITY : 0.39 1000 m3
POPULATION SERVED : 350

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NET LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.122	76.0	3.1		0.378	75.0	3.1		0.378	5.5	1.6	0.193
FEB	0.111	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	0.167	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	0.222	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.219	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	0.163	48.0	1.5		0.245	85.0	1.0		0.163	5.7	1.8	0.293
JUL	0.167	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	0.129	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	0.076	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	0.102	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	0.059	52.0	2.3		0.136	ND	ND		ND	3.4	ND	ND
DEC	0.085	86.0	3.0		0.255	ND	ND		ND	1.7	ND	ND
AVERAGE:	0.135	66.0	2.5		0.254	80.0	2.1		0.271	4.1	1.7	0.243
OBSERVATIONS:	12	4	4			2	2			4	2	
EXCEEDANCES												
NO OF SAMPLES		4	4			2	2			2	2	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TEMAGAMI
PLANT : TEMAGAMI LAGOON
WORKS NUMBER : 110002327
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.11 1000 m3
POPULATION SERVED : 440

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SNAKE ISLAND LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.042	298.0	ND			140.0	ND			9.4	ND	
FEB	0.043	162.0	ND			93.0	ND			6.6	ND	
MAR	0.091	ND	ND			ND	ND			ND	ND	
APR	0.122	250.0	ND			220.0	ND			12.0	ND	
MAY	0.130	155.0	ND			140.0	ND			9.5	ND	
JUN	0.135	102.0	ND			150.0	ND			5.3	ND	
JUL	0.117	155.0	ND			130.0	ND			7.0	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.097	187.0	0.0		0.000	146.0	0.0		0.000	8.3	0.0	0.000
OBSERVATIONS:	7	6	0			6	0			6	0	
EXCEEDANCES												
NO OF SAMPLES		6	0			6	0			6	0	

COMPLIANCE :	CRITERIA :
BOD - NO DISCHARGE	BOD - 30 mg/l
SS - NO DISCHARGE	SS - 40 mg/l
TP - NO DISCHARGE	TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	86/09/01	87/04/30	
FINAL DESIGN PHASE	88/04/01	88/06/30	
FUNDING UNDER REVIEW		88/03/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : THESSALON
PLANT : THESSALON LAGOON
WORKS NUMBER : 110002434
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : THESSALON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.23 1000 m3
POPULATION SERVED : 1600

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.070	55.0	ND			50.0	ND			4.1	ND	
FEB	1.050	190.0	ND			189.0	ND			5.6	ND	
MAR	1.197	46.0	ND			30.0	ND			2.6	ND	
APR	1.234	48.0	13.1			29.0	30.0			2.9	0.9	
MAY	1.125	33.0	ND			25.0	ND			2.0	ND	
JUN	1.142	33.0	ND			40.0	ND			2.6	ND	
JUL	1.180	16.0	ND			35.0	ND			3.0	ND	
AUG	1.242	17.0	ND			40.0	ND			2.5	ND	
SEP	1.199	50.0	ND			100.0	ND			3.0	ND	
OCT	1.206	60.0	ND			70.0	ND			3.4	ND	
NOV	1.270	16.0	ND			25.0	ND			3.8	ND	
DEC	1.340	52.0	ND			65.0	ND			2.4	ND	
AVERAGE:	1.188	51.0	13.1		16.165	58.0	30.0		37.020	3.2	0.9	1.061
OBSERVATIONS:12		12	1			12	1			12	1	
EXCEEDANCES												
NO OF SAMPLES		15	1			15	1			15	1	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	TIMMINS	REGION	NORTHEAST
PLANT	BOB'S LAKE LAGOON	DISTRICT	TIMMINS
WORKS NUMBER	120000275	OPERATING AUTHORITY	MUNICIPAL
TREATMENT	CONVENTIONAL LAGOON CONTINUOUS	WATERCOURSE	BOB'S CK TO PORCUPINE L.
		MAJOR BASIN	ARCTIC WATERSHED
		MINOR BASIN	JAMES BAY
DESIGN CAPACITY	0.07 1000 m3	IJC DESIGNATION	NON IJC
POPULATION SERVED	170		

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	115.0	36.4		ND	140.0	37.2		ND	7.2	4.1	ND
FEB	ND	154.0	79.2		ND	238.0	39.2		ND	10.2	5.8	ND
MAR	ND	332.0	74.0		ND	427.0	31.4		ND	12.7	5.9	ND
APR	ND	141.0	32.1		ND	229.0	27.4		ND	3.7	4.7	ND
MAY	ND	80.0	30.9		ND	220.0	33.4		ND	3.6	3.6	ND
JUN	ND	108.0	38.0		ND	160.0	35.0		ND	7.9	3.1	ND
JUL	ND	155.0	22.0		ND	110.0	25.0		ND	8.6	3.0	ND
AUG	ND	84.0	13.0		ND	110.0	20.0		ND	2.9	2.7	ND
SEP	ND	110.0	14.0		ND	190.0	20.0		ND	8.2	3.3	ND
OCT	ND	92.0	15.0		ND	100.0	7.0		ND	4.4	3.0	ND
NOV	ND	40.0	15.0		ND	40.0	7.0		ND	3.0	3.3	ND
DEC	ND	102.0	31.0		ND	95.0	10.0		ND	3.9	3.4	ND
AVERAGE:	0.000	126.0	33.4 *		0.000	172.0	24.4		0.000	6.4	3.8	0.000
OBSERVATIONS:	0	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW			
FACILITY CLOSED/TRUNK SEWER CONNECTION TO WHITNEY STP			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TIMMINS
PLANT : MATTAGAMI WPCP
WORKS NUMBER : 110000766
TREATMENT : PRIMARY

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MATTAGAMI RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 34.09 1000 m3
POPULATION SERVED : 33000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	16.500	56.0	18.9	66	311.850	163.0	28.2	83	465.300	7.3	2.2	35.805
FEB	16.200	68.0	14.6	79	236.520	208.0	40.8	80	660.960	5.8	1.9	30.780
MAR	19.100	157.0	41.0	74	783.100	284.0	3.1	99	59.210	6.2	4.1	77.928
APR	21.000	77.0	36.0	53	756.000	172.0	45.6	73	957.600	4.6	1.2	24.360
MAY	19.200	67.0	38.7	42	743.040	143.0	17.0	88	326.400	5.1	2.7	52.416
JUN	19.900	46.0	37.7	18	750.230	188.0	31.8	83	632.820	4.3	2.8	54.924
JUL	23.500	58.0	20.0	66	470.000	109.0	28.0	74	658.000	5.0	1.5	35.250
AUG	21.400	56.0	11.0	80	235.400	189.0	61.0	68	1305.400	7.1	1.3	27.820
SEP	19.100	80.0	25.0	69	477.500	158.0	44.8	72	855.680	5.9	1.6	30.560
OCT	ND	94.0	41.0	56	ND	233.0	41.0	82	ND	6.1	2.3	ND
NOV	20.900	ND	ND	0	ND	197.0	44.0	78	919.600	3.8	2.1	43.890
DEC	ND	115.0	57.0	50	ND	137.0	30.4	78	ND	5.2	2.7	ND
AVERAGE:	19.680	80.0	31.0	59	529.293	182.0	34.6	80	684.097	5.5	2.2	41.373
OBSERVATIONS:	10	11	11			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		11	11			51	51			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TIMMINS
PLANT : WHITNEY & TISDALE WPCP
WORKS NUMBER : 110001391
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORCUPINE RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 7300

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	2.440	164.0	15.0		36.600	188.0	7.5		18.300	7.7	4.5	10.956
FEB	2.430	224.0	15.7		38.151	224.0	12.9		31.347	8.9	4.6	11.154
MAR	3.934	196.0	5.4		21.244	126.0	8.2		32.259	7.5	3.0	11.645
APR	4.629	145.0	6.5		30.088	79.0	12.9		59.714	4.6	2.5	11.480
MAY	3.510	180.0	3.9		13.689	192.0	11.0		38.610	8.0	3.4	11.899
JUN	3.526	78.0	1.6		5.642	140.0	7.0		24.682	4.4	2.4	8.462
JUL	4.932	68.0	5.8		28.606	100.0	6.0		29.592	5.5	3.3	16.276
AUG	4.073	34.0	1.0		4.073	54.0	13.0		52.949	3.1	1.9	7.739
SEP	3.886	88.0	1.5		5.829	130.0	20.0		77.720	5.7	3.4	13.212
OCT	4.891	68.0	2.2		10.760	70.0	10.0		48.910	4.1	1.9	9.293
NOV	3.687	110.0	3.0		11.061	130.0	7.0		25.809	5.3	3.1	11.430
DEC	3.394	104.0	15.0		50.910	130.0	8.0		27.152	5.6	3.4	11.540
AVERAGE:	3.778	122.0	6.4		21.388	130.0	10.3		38.920	5.9	3.1	11.257
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VAL RITA-HARTY
PLANT : HARTY LAGOON
WORKS NUMBER : 120003316
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO NAME CREEK
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.05 1000 m3
POPULATION SERVED : 140

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	297.0	ND			204.0	ND			12.2	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	75.0	ND			79.0	ND			8.8	ND	
MAY	ND	61.0	ND			348.0	ND			5.3	ND	
JUN	ND	104.0	ND			141.0	ND			6.4	ND	
JUL	ND	110.0	ND			160.0	ND			3.3	ND	
AUG	ND	190.0	ND			200.0	ND			4.8	ND	
SEP	ND	215.0	ND			230.0	ND			5.9	ND	
OCT	ND	74.0	ND			140.0	ND			6.2	ND	
NOV	ND	56.0	ND			200.0	ND			8.2	ND	
DEC	ND	145.0	ND			130.0	ND			5.8	ND	
AVERAGE:	0.000	133.0	0.0		0.000	183.0	0.0		0.000	6.7	0.0	0.000
OBSERVATIONS:	0	10	0			10	0			10	0	
EXCEEDANCES												
NO OF SAMPLES		10	0			10	0			10	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VAL RITA-HARTY
PLANT : VAL-RITA LAGOON (MUN.1987)
WORKS NUMBER : 110002318
TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

DESIGN CAPACITY : 0.53 1000 m3
POPULATION SERVED : 580

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CREEK TO KAPUSKASING R.
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	5.9			ND	3.0			ND	1.5 *	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	175.0	ND			380.0	ND			7.3	ND	
OCT	ND	140.0	ND			120.0	ND			8.3	ND	
NOV	ND	90.0	ND			180.0	ND			26.0	ND	
DEC	ND	98.0	ND			140.0	ND			7.0	ND	
AVERAGE:	0.000	126.0	5.9		0.000	205.0	3.0		0.000	12.2	1.5 *	0.000
OBSERVATIONS:	0	4	1			4	1			4	1	
EXCEEDANCES											1	
NO OF SAMPLES		4	1			4	1			4	1	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : VALLEY EAST
PLANT : HAMNER,VAL-CARON,VAL-THERESE WPCP
WORKS NUMBER : 110001541
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 11.36 1000 m3
POPULATION SERVED : 17404

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : VERMILION RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	4.472	119.0	19.6		87.651	132.0	4.4		19.677	6.3	1.0	4.606
FEB	4.432	123.0	16.2		71.798	115.0	3.3		14.626	4.8	0.6	2.482
MAR	4.958	83.0	13.8		68.420	165.0	4.3		21.319	6.6	0.6	2.727
APR	5.839	69.0	24.0		140.136	107.0	4.1		23.940	4.1	0.3	1.927
MAY	5.193	147.0	32.8		170.330	122.0	3.3		17.137	5.1	0.4	2.181
JUN	4.380	164.0	13.2		57.816	197.0	5.0		21.900	8.1	0.6	2.453
JUL	3.922	85.0	31.0		121.582	159.0	6.7		26.277	5.4	0.5	2.000
AUG	4.181	113.0	11.7		48.918	141.0	2.2		9.198	5.1	0.4	1.505
SEP	4.661	111.0	5.8		27.034	169.0	6.7		31.229	8.0	0.5	2.517
OCT	4.258	109.0	3.2		13.626	177.0	6.7		28.529	6.9	0.9	3.832
NOV	4.145	108.0	4.7		19.482	186.0	1.1		4.559	5.3	0.6	2.528
DEC	4.435	180.0	8.5		37.697	182.0	2.6		11.531	8.3	0.6	2.705
AVERAGE:	4.573	118.0	15.4		72.041	154.0	4.2		19.160	6.2	0.6	2.622
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	21			168	166			169	166	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WALDEN
PLANT : LIVELY WPCP
WORKS NUMBER : 120001185
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MEATBIRD CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.59 1000 m3
POPULATION SERVED : 3757

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.327	141.0	7.1		9.422	103.0	5.2		6.900	6.6	3.5	4.591
FEB	1.374	75.0	28.4		39.022	106.0	12.8		17.587	5.6	4.1	5.578
MAR	1.816	50.0	12.6		22.882	93.0	7.9		14.346	2.9	1.6	2.833
APR	1.633	82.0	2.8		4.572	105.0	5.2		8.492	3.7	2.4	3.985
MAY	1.309	88.0	3.6		4.712	120.0	3.8		4.974	5.8	2.6	3.377
JUN	1.313	80.0	1.4		1.838	112.0	3.6		4.727	5.7	2.7	3.519
JUL	1.052	125.0	0.8		0.842	111.0	3.4		3.577	7.3	3.4	3.577
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1.189	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.450	132.0	8.5		12.325	121.0	9.5		13.775	5.7	3.4	4.857
DEC	1.844	76.0	32.0		59.008	138.0	15.6		28.766	4.7	4.5	8.243
AVERAGE:	1.431	94.0	10.8		17.180	112.0	7.4		11.460	5.3	3.1	4.507
OBSERVATIONS:	10	9	9			9	9			9	9	
EXCEEDANCES												
NO OF SAMPLES		17	18			122	124			17	18	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: WALDEN
PLANT	: MIKKOLA WPCP
WORKS NUMBER	: 120001531
TREATMENT	: EXTENDED AERATION
REGION	: NORTHEAST
DISTRICT	: SUDBURY
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: JUNCTION CREEK
MAJOR BASIN	: GREAT LAKES
MINOR BASIN	: LAKE HURON
IJC DESIGNATION	: INDIRECT

DESIGN CAPACITY : 4.36 1000 m3
POPULATION SERVED : 2693

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.886	63.0	13.9		26.215	85.0	7.2		13.579	3.9	3.2	6.035
FEB	2.139	48.0	9.4		20.107	54.0	10.6		22.673	4.1	2.6	5.540
MAR	2.375	34.0	9.8		23.275	44.0	10.3		24.463	3.0	2.7	6.436
APR	2.306	39.0	3.7		8.532	46.0	6.4		14.758	3.0	1.4	3.113
MAY	2.753	41.0	5.6		15.417	67.0	9.7		26.704	3.8	2.9	7.956
JUN	1.639	54.0	4.4		7.212	113.0	7.3		11.965	3.8	4.1	6.687
JUL	1.360	68.0	26.0		35.360	160.0	7.6		10.336	5.9	3.8	5.100
AUG	2.667	71.0	4.2		11.201	99.0	7.2		19.202	4.7	3.9	10.401
SEP	3.398	66.0	10.5		35.679	72.0	12.8		43.494	5.0	4.0	13.422
OCT	2.789	68.0	8.0		22.312	81.0	10.6		29.563	3.7	3.8	10.598
NOV	ND	108.0	4.5		ND	127.0	7.3		ND	5.7	3.9	ND
DEC	2.327	72.0	4.6		10.704	106.0	8.8		20.478	6.2	3.7	8.494
AVERAGE:	2.331	61.0	8.7		19.638	88.0	8.8		21.565	4.4	3.3	7.617
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			167	167			23	23	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WEBBWOOD
PLANT : WEBBWOOD LAGOON
WORKS NUMBER : 110001881
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GOUGH CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.34 1000 m3
POPULATION SERVED : 460

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.082	390.0	ND			83.0	ND			9.6	ND	
FEB	0.079	320.0	ND			170.0	ND			12.9	ND	
MAR	0.079	390.0	ND			92.0	ND			11.5	ND	
APR	0.079	380.0	ND			250.0	ND			23.0	ND	
MAY	0.086	188.0	ND			130.0	ND			13.0	ND	
JUN	0.081	183.0	ND			53.0	ND			8.5	ND	
JUL	0.080	140.0	ND			50.0	ND			10.5	ND	
AUG	0.080	135.0	ND			60.0	ND			8.3	ND	
SEP	0.080	205.0	ND			100.0	ND			9.6	ND	
OCT	0.080	260.0	ND			115.0	ND			9.5	ND	
NOV	0.080	173.0	ND			108.0	ND			9.2	ND	
DEC	0.090	143.0	ND			68.0	ND			8.9	ND	
AVERAGE:	0.081	242.0	0.0		0.000	107.0	0.0		0.000	11.2	0.0	0.000
OBSERVATIONS:	12	12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		26	0			26	0			26	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : WHITE RIVER
PLANT : WHITE RIVER LAGOON (1987)
WORKS NUMBER : 110002522
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SMALL CR. TO WHITE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION :

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 1000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	0.340	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.340	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	1	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :	CRITERIA :
BOD - NO DISCHARGE	BOD - 30 mg/l
SS - NO DISCHARGE	SS - 40 mg/l
TP - NO DISCHARGE	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

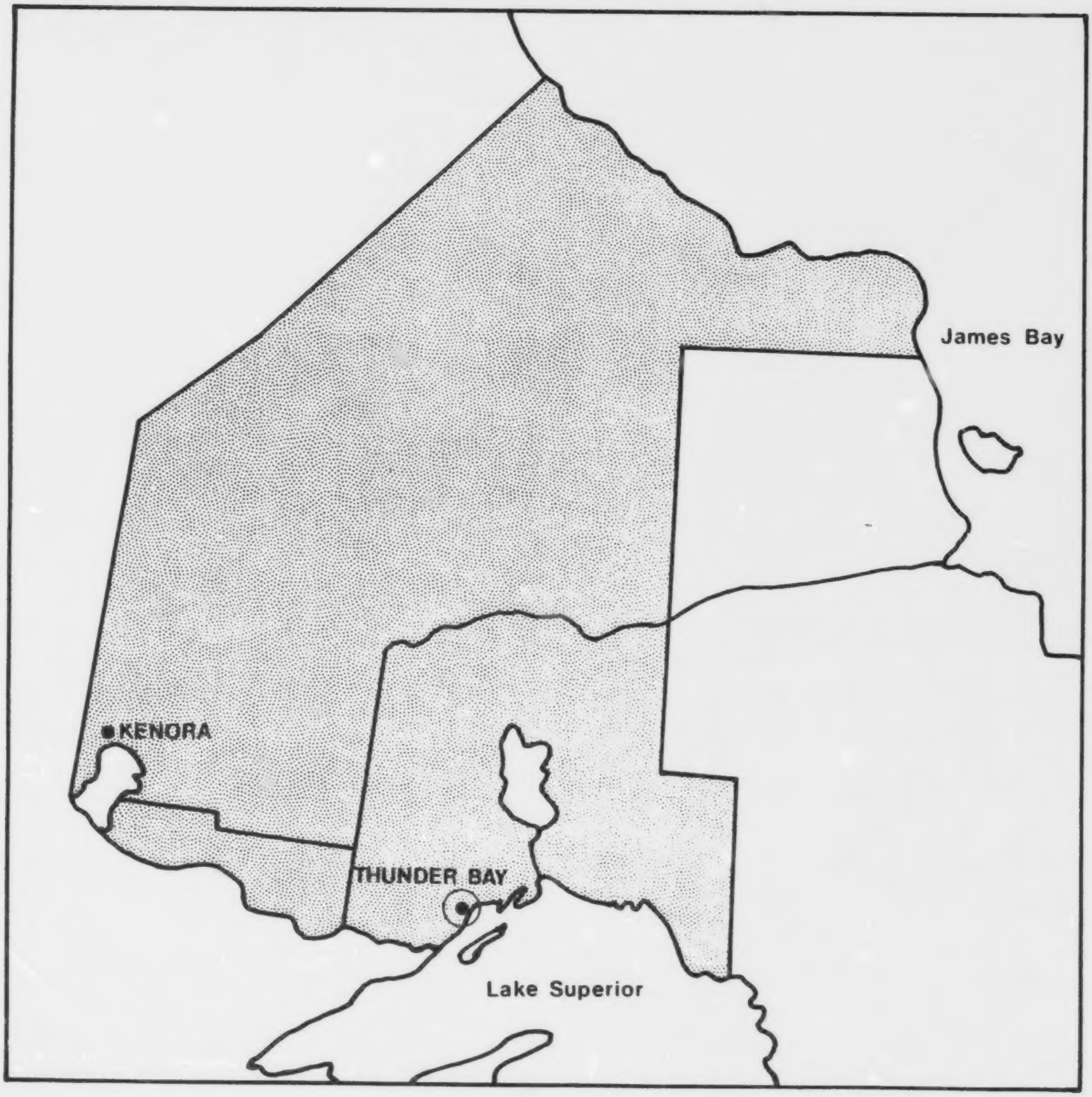
REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

Northwestern Region

⑥

Ministry of the Environment

Ontario


James Bay
KENORA
THUNDER BAY
Lake Superior

Northwestern Region

⑥

Ontario

Ministry
of the
Environment

REGIONAL OFFICE	**DISTRICT OFFICES**
Thunder Bay 435 James St. South P.O. Box 5000 P7C 5G8 (807) 475-1205	Kenora 808 Robertson St. P9N 1X9 (807) 468-5578
	Thunder Bay 435 James St. South P.O. Box 5000 P7C 5G8 (807) 475-1315

NORTHWESTERN SUMMARY - 1987

TREATMENT TYPE	NUMBER			HYDRAULIC LOADING **DESIGN CAPACITY 1000M3 (MIGD)**		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	1	0	1	.272	.000	.272 (.060)
Primary	1	3	4	9.092	112.013	121.105 (26.640)
Conventional Activated Sludge	0	1	1	.000	2.273	2.273 (.500)
Modified Activated Sludge	0	0	0	.000	.000	.000 (.000)
Contact Stabilization	1	2	3	2.341	25.003	27.344 (6.015)
Extended Aeration	10	2	12	21.770	.604	22.375 (4.922)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	0	0	0	.000	.000	.000 (.000)
Oxidation Ditch	0	0	0	.000	.000	.000 (.000)
Aerated Lagoon	0	1	1	.000	1.300	1.300 (.286)
Conventional Lagoon Continuous	0	1	1	.000	1.363	1.363 (.300)
Conventional Lagoon Seasonal	3	0	3	2.032	.000	2.032 (.447)
Conventional Lagoon Annual	0	0	0	.000	.000	.000 (.000)
Lagoon and Spray	0	0	0	.000	.000	.000 (.000)
Aerated Cell Plus Lagoon	0	0	0	.000	.000	.000 (.000)
Exfiltration Lagoon	1	0	1	1.363	.000	1.363 (.300)
TOTALS	17	10	27	36.872 (8.111)	142.558 (31.359)	179.430 (39.470)

10^3m/d: THOUSANDS OF CUBIC METRES PER DAY

mIgd: MILLION IMPERIAL GALLONS PER DAY

01307-PDR.49

CONVERSION FACTOR

$10^3m^3/d$ = .220 MIGD

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ATIKOKAN
PLANT : ATIKOKAN WPCP
WORKS NUMBER : 110001523
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.08 1000 m3
POPULATION SERVED : 4500

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ATIKOKAN RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.710	48.0	3.8		6.498	72.0	19.6		33.516	3.4	1.1 *	1.881
FEB	2.245	37.0	9.8		22.001	70.0	32.5		72.963	2.5	1.5 *	3.255
MAR	3.330	43.0	2.9		9.657	100.0	17.0		56.610	3.0	0.8	2.498
APR	2.922	61.0	2.2		6.428	97.0	13.0		37.986	3.7	0.7	1.958
MAY	3.023	70.0	3.2		9.674	105.0	7.0		21.161	3.5	0.8	2.267
JUN	2.869	51.0	0.9		2.582	80.0	7.9		22.665	3.0	0.7	2.037
JUL	2.516	36.0	0.6		1.510	52.0	8.0		20.128	2.9	0.5	1.283
AUG	3.834	61.0	0.9		3.451	100.0	9.0		34.506	3.6	0.7	2.530
SEP	2.543	55.0	0.8		2.034	90.0	3.5		8.901	3.3	0.6	1.500
OCT	2.023	73.0	0.8		1.618	110.0	7.5		15.173	3.9	0.8	1.517
NOV	1.956	78.0	1.7		3.325	113.0	10.0		19.560	3.4	0.8	1.526
DEC	1.530	84.0	2.7		4.131	140.0	20.0		30.600	3.5	1.0	1.530
AVERAGE:	2.542	58.0	2.5		6.076	94.0	12.9		31.147	3.3	0.8	1.982
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											2	
NO OF SAMPLES		27	27			26	26			27	27	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - NO	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM INPUT MONITORING		95/12/31	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY		95/12/31	
CONDUCTING TREATABILITY STUDIES	88/01/01	88/03/31	88/03/31
EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED	88/01/01	88/03/31	88/03/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : ATWOOD
PLANT : RAINY RIVER LAGOON
WORKS NUMBER : 110002292
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RAINY RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.99 1000 m3
POPULATION SERVED : 975

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.499	197.0	ND			150.0	ND			7.1	ND	
FEB	0.521	83.0	ND			140.0	ND			4.8	ND	
MAR	0.843	57.0	ND			75.0	ND			2.3	ND	
APR	0.703	63.0	12.0			80.0	15.0			3.2	1.4	
MAY	0.836	67.0	6.2			135.0	8.2			4.3	1.1	
JUN	0.626	83.0	ND			98.0	ND			5.1	ND	
JUL	0.704	60.0	ND			232.0	ND			3.4	ND	
AUG	0.712	75.0	3.9			120.0	7.6			4.3	0.6	
SEP	0.616	96.0	ND			125.0	ND			4.7	ND	
OCT	0.528	117.0	2.8			180.0	3.5			5.4	0.3	
NOV	0.531	149.0	5.6			150.0	5.0			5.8	1.1	
DEC	0.506	128.0	ND			105.0	ND			9.2	ND	
AVERAGE:	0.635	98.0	6.1		4.170	132.0	7.9		5.463	5.0	0.9	0.618
OBSERVATIONS:	12	12	5			12	5			12	5	
EXCEEDANCES												
NO OF SAMPLES		26	24			26	24			26	24	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BAIRD
PLANT : MADSEN COMMUNITY WPCP
WORKS NUMBER : 110002363
TREATMENT : COMMUNAL SEPTIC TANK

DESIGN CAPACITY : 0.27 1000 m3
POPULATION SERVED : 0

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : FLAT LAKE
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.135	75.0	25.0	67	3.375	95.0	25.0	74	3.375	3.9	2.8	0.378
FEB	0.134	45.0	31.0	31	4.154	117.0	30.0	74	4.020	2.6	3.0	0.402
MAR	0.135	25.0	43.0	0	5.805	40.0	45.0	0	6.075	1.6	3.0	0.405
APR	0.122	38.0	42.0	0	5.124	45.0	35.0	22	4.270	2.7	3.2	0.390
MAY	0.109	84.0	42.0	50	4.578	50.0	32.5	35	3.542	4.9	3.4	0.371
JUN	0.104	60.0	35.0	42	3.640	35.0	160.0	0	16.640	4.0	4.5	0.468
JUL	0.104	140.0	86.0	39	8.944	140.0	35.0	75	3.640	6.4	4.3	0.447
AUG	0.096	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	0.109	28.0	65.0	0	7.085	35.0	1960.0	0	213.640	3.4	7.3	0.796
OCT	0.120	68.0	46.5	32	5.580	120.0	27.5	77	3.300	3.8	3.2	0.384
NOV	0.131	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	0.130	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERAGE:	0.119	63.0	46.2	44	5.365	75.0	261.1	60	28.722	3.7	3.9	0.449
OBSERVATIONS:	12	9	9			9	9			9	9	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/01/01		
FINAL DESIGN PHASE	88/01/01	90/12/31	
IMPLEMENTING A PLANT PERFORMANCE MONITORING PROGRAM			
CONDUCTING TREATABILITY STUDIES			95/01/31
UNDER DISCUSSION WITH MUNICIPALITY			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : BEARDMORE
PLANT : BEARDMORE LAGOON
WORKS NUMBER : 110002309
TREATMENT : EXFILTRATION LAGOON

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 625

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.158	187.0	ND		ND	135.0	ND		ND	8.4	ND	ND
FEB	0.148	121.0	ND		ND	105.0	ND		ND	8.0	ND	ND
MAR	0.163	127.0	ND		ND	160.0	ND		ND	9.1	ND	ND
APR	0.216	127.0	ND		ND	75.0	ND		ND	6.5	ND	ND
MAY	0.188	132.0	ND		ND	115.0	ND		ND	6.9	ND	ND
JUN	0.170	125.0	ND		ND	140.0	ND		ND	8.0	ND	ND
JUL	0.168	102.0	ND		ND	170.0	ND		ND	7.2	ND	ND
AUG	0.201	130.0	ND		ND	100.0	ND		ND	7.0	ND	ND
SEP	0.181	64.0	ND		ND	87.0	ND		ND	4.2	ND	ND
OCT	0.175	113.0	ND		ND	120.0	ND		ND	6.9	ND	ND
NOV	0.188	89.0	ND		ND	189.0	ND		ND	5.3	ND	ND
DEC	0.197	130.0	ND		ND	127.0	ND		ND	8.1	ND	ND
AVERAGE:	0.179	121.0	0.0		0.000	127.0	0.0		0.000	7.1	0.0	0.000
OBSERVATIONS:	12	12	0			12	0			12	0	
EXCEEDANCES												
NO OF SAMPLES		23	0			23	0			23	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : CARAMAT
PLANT : CARAMAT WPCP
WORKS NUMBER : 120003085
TREATMENT : EXTENDED AERATION
EXFILTRATION

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
REMEDIAL MEASURES BEING EVALUATED			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : DRYDEN
PLANT : DRYDEN WPCP
WORKS NUMBER : 120000248
TREATMENT : CONTACT STABILIZATION

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WABIGOON RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 6.81 1000 m3
POPULATION SERVED : 6900

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	3.440	32.0	11.0		37.840	40.0	8.0		27.520	2.3	1.5	5.160
FEB	3.234	132.0	20.0		64.680	180.0	8.0		25.872	7.6	0.5	1.746
MAR	4.132	31.0	10.0		41.320	30.0	6.0		24.792	3.3	0.5	2.107
APR	3.692	110.0	20.0		73.840	220.0	10.0		36.920	5.8	0.7	2.695
MAY	3.914	108.0	23.0		90.022	280.0	7.0		27.398	4.3	0.4	1.448
JUN	4.036	82.0	2.0		8.072	85.0	4.0		16.144	3.7	0.4	1.413
JUL	4.417	82.0	2.3		10.159	130.0	3.0		13.251	4.3	0.3	1.281
AUG	4.424	66.0	4.4		19.466	120.0	3.0		13.272	3.5	0.6	2.699
SEP	3.736	58.0	4.4		16.438	85.0	1.0		3.736	3.0	0.4	1.420
OCT	3.406	88.0	5.2		17.711	110.0	6.0		20.436	5.9	2.1	7.153
NOV	3.235	62.0	4.5		14.557	65.0	10.0		32.350	3.8	3.0	9.705
DEC	2.927	110.0	8.1		23.709	120.0	5.0		14.635	5.2	1.1	3.220
AVERAGE:	3.716	80.0	9.6		34.818	122.0	5.9		21.361	4.4	1.0	3.337
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EAR FALLS
PLANT : EAR FALLS WPCP
WORKS NUMBER : 110001006
TREATMENT : EXTENDED AERATION
CONVERTIBLE OPERATING MODE

DESIGN CAPACITY : 2.86 1000 m3
POPULATION SERVED : 1750

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ENGLISH RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.263	30.0	1.0		1.263	275.0	9.0		11.367	2.9	0.4	0.530
FEB	1.239	65.0	1.6		1.982	145.0	12.5		15.488	4.1	0.5	0.620
MAR	1.259	59.0	7.2		9.065	110.0	90.0		113.310	3.2	3.2	4.029
APR	1.255	51.0	5.1		6.400	100.0	70.0		87.850	3.3	2.5	3.137
MAY	1.278	135.0	1.3		1.661	125.0	7.5		9.585	3.4	0.4	0.562
JUN	1.274	52.0	0.9		1.147	115.0	5.5		7.007	2.1	0.3	0.420
JUL	1.304	75.0	0.7		0.913	95.0	5.0		6.520	3.7	0.4	0.548
AUG	1.262	64.0	0.8		1.010	207.0	5.3		6.689	3.6	0.6	0.707
SEP	1.252	55.0	0.9		1.127	140.0	5.5		6.886	5.0	0.7	0.839
OCT	1.242	93.0	0.8		0.994	255.0	7.5		9.315	4.8	0.5	0.658
NOV	1.229	81.0	2.7		3.318	117.0	23.3		28.636	3.6	1.1	1.303
DEC	1.234	107.0	2.1		2.591	225.0	8.5		10.489	4.7	0.5	0.580
AVERAGE:	1.258	72.0	2.1		2.623	159.0	20.8		26.095	3.7	0.9	1.161
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	53	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : EMO
PLANT : EMO LAGOON
WORKS NUMBER : 110001015
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RAINY RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.27 1000 m3
POPULATION SERVED : 750

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.398	116.0	ND			160.0	ND			6.2	ND	
FEB	0.409	14.0	ND			45.0	ND			0.6	ND	
MAR	0.456	56.0	ND			100.0	ND			4.4	ND	
APR	0.424	161.0	ND			260.0	ND			7.0	ND	
MAY	0.471	76.0	13.8			100.0	16.3			5.3	1.8	
JUN	0.459	40.0	ND			105.0	ND			5.0	ND	
JUL	0.486	76.0	ND			225.0	ND			4.8	ND	
AUG	0.499	86.0	ND			120.0	ND			5.5	ND	
SEP	0.437	122.0	ND			165.0	ND			7.3	ND	
OCT	0.421	99.0	ND			98.0	ND			5.4	ND	
NOV	0.434	90.0	5.8			155.0	3.3			3.6	1.3	
DEC	0.407	105.0	9.9			155.0	8.3			5.8	1.6	
AVERAGE:	0.442	87.0	9.8		4.349	141.0	9.3		4.162	5.1	1.6	0.688
OBSERVATIONS:12		12	3			12	3			12	3	
EXCEEDANCES												
NO OF SAMPLES		12	3			12	3			12	3	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30 mg/l
SS - YES	SS - 40 mg/l
TP - YES	TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW			
UNDER CONSTRUCTION	88/01/01	89/12/31	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/01/01	87/12/31	
SEWER REPLACEMENT UNDERWAY	88/01/01	89/12/31	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : FORT FRANCES
PLANT : FORT FRANCES WPCP
WORKS NUMBER : 110000258
TREATMENT : PRIMARY

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RAINY RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 8750

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	5.300	92.0	49.0	47	259.700	320.0	48.0	85	254.400	4.7	3.7	19.610
FEB	5.500	75.0	57.0	24	313.500	125.0	58.0	54	319.000	4.0	3.5	19.250
MAR	5.900	57.0	39.0	32	230.100	138.0	60.0	57	354.000	3.4	3.0	17.700
APR	6.200	23.0	41.0	-78	254.200	108.0	60.0	44	372.000	6.8	1.3	8.060
MAY	6.700	62.0	55.0	11	368.500	113.0	63.0	44	422.100	3.2	3.4	22.780
JUN	6.700	73.0	47.0	36	314.900	125.0	60.0	52	402.000	3.6	2.9	19.430
JUL	7.200	42.0	43.0	-2	309.600	88.0	70.0	20	504.000	7.2	2.6	18.720
AUG	9.500	45.0	32.0	29	304.000	117.0	52.0	56	494.000	2.8	1.9	18.050
SEP	7.800	52.0	39.0	25	304.200	130.0	48.0	63	374.400	2.9	2.2	17.160
OCT	7.000	102.0	46.0	55	322.000	180.0	380.0	***	2660.000	3.7	2.6	18.200
NOV	6.700	74.0	55.0	26	368.500	165.0	58.0	65	388.600	3.7	2.7	18.090
DEC	6.100	70.0	51.0	27	311.100	93.0	43.0	54	262.300	3.2	2.5	15.250
AVERAGE:	6.717	64.0	46.2	31	305.025	142.0	83.3	54	567.233	4.1	2.7	17.692
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			11	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	86/01/01	95/12/31	
ENGINEERING STUDY PHASE	88/01/01	95/12/31	
COLLECTION SYSTEM INPUT MONITORING	86/01/01	95/12/31	
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	88/01/01	95/12/31	
FUNDING UNDER REVIEW			1995

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GERALDTON
PLANT : GERALDTON WPCP
WORKS NUMBER : 110001649
TREATMENT : EXTENDED AERATION

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE KENOGAMISIS
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 2901

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	1.131	77.0	2.6		2.941	105.0	3.5		3.958	4.6	2.6	2.941
FEB	1.145	71.0	2.8		3.206	115.0	4.5		5.152	5.4	2.6	2.977
MAR	1.629	52.0	2.6		4.235	95.0	5.0		8.145	4.5	2.1	3.421
APR	2.042	72.0	2.0		4.084	97.0	5.0		10.210	4.1	1.7	3.471
MAY	1.889	75.0	2.1		3.967	110.0	4.0		7.556	5.3	1.7	3.211
JUN	1.566	54.0	2.2		3.445	76.0	4.6		7.204	4.5	1.8	2.866
JUL	1.719	74.0	1.5		2.579	125.0	2.5		4.298	5.6	1.9	3.266
AUG	1.627	92.0	4.3		6.996	160.0	7.0		11.389	5.8	1.9	3.091
SEP	1.578	80.0	2.1		3.314	140.0	1.0		1.578	5.1	2.1	3.235
OCT	2.708	64.0	1.2		3.250	115.0	3.0		8.124	4.1	1.6	4.333
NOV	2.604	82.0	1.7		4.427	133.0	3.8		9.895	4.1	1.9	4.817
DEC	2.247	149.0	1.9		4.269	121.0	3.7		8.314	5.3	2.3	5.056
AVERAGE:	1.824	78.0	2.3		3.893	116.0	4.0		7.152	4.8	2.0	3.557
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		24	22			33	31			24	22	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	87/11/01	88/03/31	89/12/31

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GOLDEN
PLANT : BALMERTOWN WPCP
WORKS NUMBER : 110003291
TREATMENT : EXTENDED AERATION

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BALMER CREEK
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.22 1000 m3
POPULATION SERVED : 1300

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.144	62.0	9.3		10.639	70.0	17.5		20.020	0.4	3.5	3.947
FEB	1.531	74.0	9.9		15.157	243.0	9.5		14.544	1.1	2.0	3.062
MAR	1.505	67.0	4.8		7.224	90.0	7.6		11.438	5.0	1.9	2.859
APR	1.134	75.0	7.9		8.959	82.0	8.5		9.639	0.4	2.0	2.211
MAY	0.929	124.0	20.0		18.580	100.0	7.0		6.503	5.4	3.2	2.973
JUN	0.883	82.0	1.7		1.501	85.0	1.5		1.325	5.6	3.0	2.605
JUL	0.820	125.0	5.9		4.838	125.0	3.5		2.870	6.1	2.8	2.296
AUG	0.745	120.0	3.7		2.756	108.0	23.0		17.135	7.3	3.4	2.533
SEP	0.709	118.0	5.3		3.758	110.0	4.0		2.836	7.2	3.7	2.623
OCT	0.775	100.0	2.9		2.248	70.0	9.0		6.975	4.2	3.5	2.712
NOV	0.887	130.0	3.5		3.105	103.0	5.3		4.701	6.1	2.5	2.218
DEC	1.038	92.0	7.8		8.096	67.0	7.0		7.266	4.4	2.1	2.180
AVERAGE:	1.008	97.0	6.9		7.238	104.0	8.6		8.771	4.4	2.8	2.685
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		26	26			26	26			26	26	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : GOLDEN
PLANT : COCHENOUR LAGOON
WORKS NUMBER : 110002504
TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RED LAKE
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.76 1000 m3
POPULATION SERVED : 800

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.445	ND	ND			ND	ND			ND	ND	
FEB	0.511	ND	ND			ND	ND			ND	ND	
MAR	0.570	ND	ND			ND	ND			ND	ND	
APR	0.454	12.0	11.0			10.0	15.0			0.9	1.8	
MAY	0.288	106.0	ND			220.0	ND			6.9	ND	
JUN	0.260	12.0	ND			20.0	ND			ND	ND	
JUL	0.279	ND	ND			ND	ND			ND	ND	
AUG	0.265	ND	1.0			ND	5.0			ND	0.2	
SEP	0.857	ND	0.9			ND	7.7			ND	0.2	
OCT	0.619	41.0	0.6			90.0	1.0			3.0	1.5	
NOV	0.460	35.0	0.6			35.0	5.0			ND	1.4	
DEC	0.405	ND	ND			ND	ND			ND	ND	
AVERAGE:	0.451	41.0	2.8		1.335	75.0	6.7		3.531	3.6	1.0	0.523
OBSERVATIONS:12		5	5			5	5			3	5	
EXCEEDANCES												
NO OF SAMPLES		5	7			5	7			3	7	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

MUNICIPALITY : IGNACE
PLANT : IGNACE WPCP
WORKS NUMBER : 110001355
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.49 1000 m3
POPULATION SERVED : 2285

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AGIMAC CREEK
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.120	91.0	2.9		3.248	120.0	15.0		16.800	5.2	0.6	0.638
FEB	1.190	94.0	3.4		3.805	122.0	12.5		13.988	5.4	0.5	0.559
MAR	1.087	82.0	4.8		5.218	98.0	9.0		9.783	5.7	0.6	0.630
APR	0.998	80.0	3.4		3.393	110.0	7.0		6.986	5.0	0.5	0.499
MAY	0.995	128.0	5.8		5.249	185.0	10.0		9.050	6.8	0.6	0.525
JUN	1.051	91.0	3.0		3.153	143.0	6.7		7.042	4.1	0.5	0.483
JUL	1.041	116.0	3.0		3.123	270.0	7.0		7.287	8.0	0.6	0.604
AUG	1.047	95.0	2.6		2.722	131.0	11.0		11.517	5.5	0.7	0.754
SEP	1.085	110.0	4.8		5.208	305.0	8.0		8.680	5.7	0.7	0.792
OCT	1.024	84.0	1.8		1.843	135.0	12.5		12.800	5.5	0.8	0.860
NOV	0.982	111.0	3.2		3.142	130.0	12.0		11.784	4.8	0.8	0.746
DEC	1.071	138.0	4.1		4.391	363.0	13.0		13.923	6.4	0.9	0.953
AVERAGE:	1.058	102.0	3.6		3.708	176.0	10.3		10.803	5.7	0.6	0.670
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		26	26			26	26			26	26	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - 1.0 mg/l

NOTE :
BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : KENORA
PLANT : KENORA WPCP
WORKS NUMBER : 120000239
TREATMENT : CONTACT STABILIZATION

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WINNIPEG RIVER
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 12000

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	12.151	140.0	16.0		194.416	150.0	15.0		182.265	5.8	0.7	8.506
FEB	11.551	78.0	21.0		242.571	120.0	15.0		173.265	4.8	0.8	8.663
MAR	10.937	60.0	16.0		174.992	100.0	15.0		164.055	3.1	0.6	6.781
APR	10.718	104.0	13.0		139.334	130.0	ND		ND	4.4	ND	ND
MAY	8.302	50.0	20.0		166.040	110.0	9.0		74.718	2.3	0.4	3.155
JUN	9.845	125.0	6.0		59.070	170.0	10.0		98.450	6.1	1.0	9.353
JUL	8.999	108.0	10.0		89.990	150.0	10.0		89.990	5.8	1.2	10.799
AUG	9.417	94.0	22.0		207.174	210.0	15.0		141.255	6.9	1.2	11.300
SEP	8.266	84.0	8.0		66.128	100.0	9.0		74.394	5.1	1.1	9.093
OCT	8.266	115.0	ND		ND	180.0	10.0		82.660	6.2	0.9	7.274
NOV	10.175	114.0	10.0		101.750	160.0	ND		ND	4.7	0.8	7.631
DEC	8.255	116.0	13.2		108.966	110.0	7.0		57.785	ND	ND	ND
AVERAGE:	9.740	99.0	14.1		140.948	141.0	11.5		113.884	5.0	0.9	8.256
OBSERVATIONS:	12	12	11			12	10			11	10	
EXCEEDANCES												
NO OF SAMPLES		12	10			12	10			11	10	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : LONGLAC
PLANT : LONGLAC WPCP
WORKS NUMBER : 110001042
TREATMENT : CONTACT STABILIZATION

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MAKING GROUND RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.34 1000 m3
POPULATION SERVED : 2900

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.344	115.0	2.7		3.629	255.0	5.0		6.720	7.5	0.9	1.183
FEB	1.253	169.0	4.9		6.140	240.0	5.5		6.891	8.7	0.6	0.714
MAR	1.776	184.0	8.5		15.096	200.0	6.0		10.656	9.5	0.5	0.924
APR	1.820	85.0	6.1		11.102	123.0	13.0		23.660	4.5	0.5	0.983
MAY	2.198	74.0	7.0		15.386	125.0	15.0		32.970	4.3	0.7	1.451
JUN	1.938	131.0	13.6		26.357	240.0	14.0		27.132	7.2	0.6	1.240
JUL	1.739	79.0	6.6		11.477	138.0	17.5		30.433	6.7	0.9	1.565
AUG	1.730	95.0	8.8		15.224	108.0	11.0		19.030	6.0	1.0	1.730
SEP	1.992	95.0	3.1		6.175	125.0	2.0		3.984	6.7	0.6	1.096
OCT	2.611	53.0	2.8		7.311	93.0	6.0		15.666	3.4	0.6	1.567
NOV	1.970	119.0	2.6		5.229	130.0	5.5		11.061	4.2	1.1	2.132
DEC	1.772	107.0	6.5		11.518	115.0	5.5		9.746	5.9	0.5	0.868
AVERAGE:	1.845	109.0	6.1		11.220	158.0	8.8		16.496	6.2	0.7	1.288
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		25	25			25	25			25	25	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	87/05/01	87/12/31	
INFILTRATION PROBLEMS ARE BEING CORRECTED	88/05/01	88/12/31	
PHASING OUT EXISTING FACILITIES	87/05/01	89/09/30	

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MANITOUWADGE
PLANT : MANITOUWADGE LAGOON
WORKS NUMBER : 120001988
TREATMENT : AERATED LAGOON
CONTINUOUS DISCHARGE

DESIGN CAPACITY : 1.30 1000 m3
POPULATION SERVED : 4513

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RUDDER LAKE
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION :

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.216	33.0	20.0		44.320	25.0	20.0		44.320	1.1	3.8	8.421
FEB	2.106	96.0	26.0		54.756	340.0	25.0		52.650	7.2	3.9	8.213
MAR	2.424	88.0	32.0		77.568	110.0	25.0		60.600	7.0	4.2	10.181
APR	2.802	51.0	18.0		50.436	80.0	20.0		56.040	4.6	3.4	9.527
MAY	2.436	78.0	14.0		34.104	60.0	20.0		48.720	0.9	2.9	8.780
JUN	2.426	96.0	15.0		29.148	110.0	25.0		36.435	6.5	3.6	8.502
JUL	2.438	105.0	12.0		26.840	130.0	15.0		17.080	5.7	3.5	7.320
AUG	2.517	50.0	11.0		17.633	85.0	7.0		37.785	3.4	3.0	7.557
SEP	2.447	72.0	7.0		16.660	85.0	15.0		14.700	3.9	3.0	7.105
OCT	2.729	96.0	6.8		35.516	110.0	6.0		27.320	5.3	2.9	8.196
NOV	2.829	92.0	13.0		31.152	130.0	10.0		14.160	4.6	3.0	8.213
DEC	2.848	150.0	11.0		42.765	130.0	5.0		22.808	5.3	2.9	9.123
AVERAGE:	2.518	84.0	15.5		38.408	116.0	16.1		36.051	4.6	3.3	8.428
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : MARATHON
PLANT : MARATHON WPCP
WORKS NUMBER : 120000471
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 4.40 1000 m3
POPULATION SERVED : 5000

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE SUPERIOR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.088	126.0	1.6		1.741	150.0	4.0		4.352	7.3	3.8	4.134
FEB	1.164	95.0	1.4		1.630	335.0	5.0		5.820	5.7	3.9	4.540
MAR	1.214	95.0	2.6		3.156	118.0	6.5		7.891	5.9	3.8	4.553
APR	1.228	66.0	2.1		2.579	98.0	7.0		8.596	5.2	3.8	4.666
MAY	0.996	120.0	1.7		1.693	150.0	3.0		2.988	8.0	4.9	4.880
JUN	0.997	108.0	1.8		1.795	123.0	2.3		2.293	7.0	4.6	4.586
JUL	1.064	107.0	1.1		1.170	107.0	2.0		2.128	7.2	5.3	5.586
AUG	0.972	130.0	2.0		1.944	160.0	2.5		2.430	6.9	4.7	4.520
SEP	1.028	144.0	3.4		3.495	160.0	2.5		2.570	7.5	5.1	5.191
OCT	1.146	140.0	2.8		3.209	175.0	3.5		4.011	6.8	5.4	6.188
NOV	1.303	115.0	3.0		3.909	133.0	5.7		7.427	5.5	5.0	6.515
DEC	1.353	100.0	5.4		7.306	110.0	5.0		6.765	5.0	3.5	4.736
AVERAGE:	1.129	112.0	2.4		2.802	152.0	4.1		4.773	6.5	4.5	5.008
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	22			22	22			22	22	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : NAKINA
PLANT : NAKINA WPCP (NO PH REMOVAL AUG.18 1987)
WORKS NUMBER : 110003308
TREATMENT : EXTENDED AERATION
CONVERTIBLE OPERATING MODE

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : BALKAM CREEK
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 0.37 1000 m3
POPULATION SERVED : 750

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.446	58.0	10.3		4.625	90.0	8.5		3.817	3.2	3.0	1.347
FEB	0.421	46.0	3.8		1.600	70.0	6.0		2.526	3.8	2.1	0.863
MAR	0.447	117.0	3.2		1.430	180.0	5.5		2.458	6.2	1.5	0.670
APR	0.500	57.0	3.0		1.450	67.0	5.0		2.500	3.4	0.5	0.225
MAY	0.523	160.0	1.7		0.889	120.0	3.0		1.569	2.4	0.3	0.167
JUN	0.458	54.0	1.6		0.733	75.0	4.0		1.832	2.8	0.3	0.142
JUL	0.357	88.0	1.2		0.428	120.0	2.0		0.714	0.6	0.5	0.171
AUG	0.350	114.0	0.7		0.245	183.0	4.0		1.400	6.6	1.0	0.339
SEP	0.374	89.0	1.1		0.411	145.0	1.5		0.561	4.1	0.6	0.209
OCT	0.505	50.0	1.5		0.758	120.0	7.0		3.535	3.7	0.9	0.444
NOV	0.431	60.0	1.7		0.733	65.0	8.5		3.663	2.9	0.7	0.280
DEC	0.362	108.0	3.0		1.086	143.0	16.5		5.973	5.1	0.9	0.340
AVERAGE:	0.431	83.0	2.7		1.199	115.0	6.0		2.546	3.7	1.0	0.433
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		22	23			23	23			24	23	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	: NIPIGON
PLANT	: NIPIGON WPCP
WORKS NUMBER	: 120000514
TREATMENT	: PRIMARY

REGION	: NORTHWEST
DISTRICT	: THUNDER BAY
OPERATING AUTHORITY	: MUNICIPAL
WATERCOURSE	: NIPIGON RIVER
MAJOR BASIN	: GREAT LAKES
MINOR BASIN	: LAKE SUPERIOR
IJC DESIGNATION	: DIRECT

DESIGN CAPACITY : 1.63 1000 m3

POPULATION SERVED : 2180

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.219	70.0	90.0	0	199.710	120.0	35.0	71	77.665	5.4	4.4	9.764
FEB	1.822	84.0	46.0	45	83.812	130.0	55.0	58	100.210	6.2	4.3	7.835
MAR	2.074	108.0	49.0	55	101.626	160.0	50.0	68	104.944	5.2	4.1	8.503
APR	2.060	108.0	49.0	55	100.940	160.0	50.0	69	103.000	5.2	4.1	8.446
MAY	1.730	90.0	33.0	63	57.090	180.0	50.0	72	86.500	3.8	1.9	3.287
JUN	1.730	115.0	52.0	55	89.960	170.0	60.0	65	103.800	7.7	4.8	8.304
JUL	2.005	94.0	27.0	71	54.135	120.0	30.0	75	60.150	6.1	3.6	7.218
AUG	2.090	94.0	40.0	57	83.600	160.0	15.0	91	31.350	5.3	3.3	6.897
SEP	2.074	195.0	62.0	68	128.588	320.0	30.0	91	62.220	13.0	3.9	8.089
OCT	2.205	110.0	63.0	43	138.915	110.0	45.0	59	99.225	4.6	4.4	9.702
NOV	2.831	110.0	51.0	54	144.381	110.0	35.0	68	99.085	4.5	3.8	10.758
DEC	ND	96.0	53.0	45	ND	120.0	45.0	62	ND	5.6	4.2	ND
AVERAGE:	2.076	106.0	51.3	56	107.523	155.0	41.7	71	84.377	6.1	3.9	8.073
OBSERVATIONS:	11	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 30%
SS - YES	SS - 50%
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY	PICKLE LAKE
PLANT	PICKLE LAKE WPCP
WORKS NUMBER	110002185
TREATMENT	EXTENDED AERATION

REGION	NORTHWEST
DISTRICT	THUNDER BAY
OPERATING AUTHORITY	MINISTRY
WATERCOURSE	KAWINOGANS RIVER
MAJOR BASIN	ARCTIC WATERSHED
MINOR BASIN	JAMES BAY
IJC DESIGNATION	NON IJC

DESIGN CAPACITY : 0.90 1000 m3

POPULATION SERVED : 425

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
		INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.237	30.0	2.0		0.474	58.0	12.0		2.844	1.3	2.0	0.474
FEB	0.174	24.0	4.7		0.818	30.0	5.0		0.870	1.0	2.1	0.365
MAR	0.185	17.0	0.7		0.130	30.0	3.5		0.647	0.8	2.1	0.379
APR	0.251	17.0	0.7		0.176	40.0	1.5		0.377	1.4	1.4	0.351
MAY	0.279	21.0	0.8		0.223	35.0	1.5		0.419	1.1	1.8	0.502
JUN	0.359	17.0	1.4		0.503	32.0	1.5		0.538	0.8	1.9	0.682
JUL	0.361	24.0	1.0		0.361	44.0	2.0		0.722	1.3	1.7	0.614
AUG	0.332	28.0	1.1		0.365	70.0	3.0		0.996	1.2	1.6	0.581
SEP	0.284	19.0	1.1		0.312	25.0	1.0		0.284	1.0	1.9	0.540
OCT	0.206	18.0	1.2		0.247	45.0	3.5		0.721	0.9	1.7	0.350
NOV	0.223	41.0	1.5		0.335	55.0	5.0		1.226	1.9	1.7	0.379
DEC	0.280	39.0	1.5		0.420	48.0	3.6		1.008	1.4	1.4	0.392
AVERAGE:	0.264	25.0	1.5		0.364	43.0	3.6		0.888	1.2	1.8	0.467
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	22			23	22			23	22	

COMPLIANCE :	CRITERIA :
BOD - YES	BOD - 25 mg/l
SS - YES	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RED LAKE
PLANT : RED LAKE WPCP
WORKS NUMBER : 110001131
TREATMENT : EXTENDED AERATION

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : HOWEY BAY
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.46 1000 m3
POPULATION SERVED : 1945

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	1.491	89.0	2.5		3.728	105.0	7.5		11.183	4.4	1.9	2.758
FEB	1.677	82.0	4.6		7.714	108.0	12.5		20.963	4.3	2.0	3.354
MAR	1.825	83.0	7.6		13.870	157.0	7.0		12.775	4.6	1.6	2.920
APR	1.884	69.0	7.2		13.565	92.0	5.5		10.362	3.6	1.9	3.580
MAY	1.593	85.0	5.7		9.080	117.0	7.0		11.151	4.9	1.9	2.947
JUN	1.460	57.0	2.0		2.920	87.0	8.5		12.410	4.1	2.1	3.110
JUL	1.743	96.0	2.7		4.706	82.0	4.5		7.844	4.5	2.3	4.009
AUG	1.749	88.0	2.1		3.673	133.0	11.0		19.239	5.3	2.2	3.848
SEP	1.506	244.0	2.0		3.012	92.0	5.5		8.283	5.1	2.4	3.614
OCT	1.432	86.0	1.1		1.575	105.0	5.5		7.876	4.9	2.3	3.294
NOV	1.510	112.0	7.6		11.476	138.0	7.3		11.023	5.4	2.4	3.624
DEC	1.756	67.0	3.2		5.619	82.0	5.0		8.780	4.3	2.0	3.424
AVERAGE:	1.636	96.0	4.0		6.745	108.0	7.2		11.824	4.6	2.1	3.373
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		28	28			28	28			28	28	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : RED ROCK
PLANT : RED ROCK WPCP
WORKS NUMBER : 120001817
TREATMENT : PRIMARY

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIPIGON BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.27 1000 m3
POPULATION SERVED : 1150

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	5 DAY BOD EFF (mg/L)	5 DAY BOD (%REM)	5 DAY BOD LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	SUSPENDED SOLIDS EFF (mg/L)	SUSPENDED SOLIDS (%REM)	SUSPENDED SOLIDS LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	TOTAL PHOSPHORUS EFF (mg/L)	TOTAL PHOSPHORUS LOAD (kg/d)
JAN	0.670	70.0	24.0	66	16.080	100.0	20.0	80	13.400	5.1	2.5	1.675
FEB	0.748	140.0	36.0	74	26.928	250.0	25.0	90	18.700	9.0	3.8	2.842
MAR	0.708	64.0	27.0	58	19.116	110.0	25.0	77	17.700	5.1	3.0	2.124
APR	0.827	70.0	38.0	46	31.426	110.0	34.0	69	28.118	4.1	3.1	2.564
MAY	0.781	42.0	37.0	12	28.897	110.0	15.0	86	11.715	2.1	2.9	2.265
JUN	0.756	175.0	54.0	69	40.824	330.0	15.0	95	11.340	5.5	3.0	2.268
JUL	0.775	34.0	35.0	0	27.125	130.0	18.0	86	13.950	3.4	3.1	2.403
AUG	0.662	72.0	38.0	47	25.156	85.0	15.0	82	9.930	3.6	2.4	1.589
SEP	0.681	98.0	39.0	60	26.559	150.0	25.0	83	17.025	4.7	2.6	1.771
OCT	0.860	72.0	46.0	36	39.560	80.0	35.0	56	30.100	5.4	3.0	2.580
NOV	0.822	66.0	48.0	27	39.456	90.0	40.0	56	32.880	3.9	3.1	2.548
DEC	0.648	78.0	43.0	45	27.864	75.0	50.0	33	32.400	3.8	3.8	2.462
AVERAGE:	0.745	82.0	38.8	49	29.083	135.0	26.4	74	19.771	4.6	3.0	2.258
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 30%
SS - 50%
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SCHREIBER
PLANT : SCHREIBER WPCP
WORKS NUMBER : 110002112
TREATMENT : EXTENDED AERATION
CONTACT STABILIZATION
CONVERTIBLE OPERATING MODE
DESIGN CAPACITY : 1.13 1000 m3
POPULATION SERVED : 1937

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CREEK TO L.SUPERIOR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.689	126.0	46.0		31.694	195.0	77.5		53.397	5.4	4.4	3.032
FEB	0.650	112.0	30.0		19.500	135.0	28.0		18.200	7.7	3.0	1.950
MAR	0.531	157.0	22.0		11.682	190.0	27.5		14.603	7.5	3.9	2.071
APR	0.676	123.0	14.0		9.464	155.0	35.0		23.660	7.9	4.0	2.704
MAY	0.595	128.0	18.0		10.710	135.0	30.0		17.850	8.8	4.6	2.737
JUN	0.625	133.0	14.0		8.750	140.0	19.5		12.188	6.8	4.7	2.906
JUL	0.678	109.0	42.5		28.815	145.0	32.5		22.035	7.0	3.9	2.644
AUG	0.759	143.0	31.0		23.529	275.0	20.0		15.180	5.0	2.5	1.897
SEP	0.733	107.0	44.0		32.252	115.0	50.0		36.650	5.4	3.0	2.199
OCT	0.640	70.0	12.0		7.680	115.0	10.0		6.400	3.6	0.7	0.448
NOV	0.636	165.0	33.0		20.988	130.0	35.0		22.260	7.6	4.2	2.671
DEC	0.594	153.0	34.0		20.196	170.0	35.0		20.790	6.9	4.3	2.524
AVERAGE:	0.651	127.0	28.4 *		18.772	158.0	33.3 *		21.934	6.6	3.6	2.315
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES												
NO OF SAMPLES		23	23			23	23			23	23	

COMPLIANCE :	CRITERIA :
BOD - NO	BOD - 25 mg/l
SS - NO	SS - 25 mg/l
TP - YES	TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
ENGINEERING STUDY PHASE	89/10/31	89/12/31	1990

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : SIOUX LOOKOUT
PLANT : SIOUX LOOKOUT WPCP
WORKS NUMBER : 120000220
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PELICAN LAKE
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.27 1000 m3
POPULATION SERVED : 3006

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	2.609	215.0	9.2		24.003	420.0	10.0		26.090	8.5	3.5	9.132
FEB	2.572	102.0	8.8		22.634	130.0	10.0		25.720	6.0	3.5	9.002
MAR	3.573	112.0	14.0		50.022	120.0	15.0		53.595	5.3	2.9	10.362
APR	3.929	82.0	3.0		11.787	270.0	7.0		27.503	5.0	3.2	12.573
MAY	3.981	105.0	8.5		33.838	98.0	8.0		31.848	4.8	3.4	13.695
JUN	4.217	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	3.406	86.0	5.8		19.755	90.0	4.0		13.624	6.1	3.4	11.580
AUG	3.491	100.0	10.0		34.910	80.0	8.0		27.928	5.2	3.3	11.520
SEP	3.698	152.0	21.6		79.877	253.0	14.0		51.772	5.2	3.3	12.055
OCT	3.958	109.0	8.9		35.226	140.0	8.7		34.435	6.1	3.4	13.457
NOV	5.069	150.0	9.2		46.635	160.0	6.0		30.414	5.9	3.3	16.728
DEC	3.657	175.0	68.0		248.676	160.0	40.0		146.280	5.6	2.5	9.143
AVERAGE:	3.680	126.0	15.2		55.215	175.0	11.9		42.655	5.8	3.2	11.750
OBSERVATIONS:12		11	11			11	11			11	11	
EXCEEDANCES												
NO OF SAMPLES		39	39			39	39			39	39	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FUNDING UNDER REVIEW	88/01/01		
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	86/01/01	90/12/31	
ENVIRONMENTAL ASSESSMENT PROCESS			1990
FINAL DESIGN PHASE			1990

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TERRACE BAY
PLANT : TERRACE BAY LAGOON
WORKS NUMBER : 120000499
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
EXFILTRATION LAGOON

DESIGN CAPACITY : 0.00 1000 m3
POPULATION SERVED : 0

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAGE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSERVATIONS:	0	0	0			0	0			0	0	
EXCEEDANCES												
NO OF SAMPLES		0	0			0	0			0	0	

COMPLIANCE :

BOD - NO DISCHARGE
SS - NO DISCHARGE
TP - NO DISCHARGE

CRITERIA :

BOD - 30 mg/l
SS - 40 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : TERRACE BAY
PLANT : TERRACE BAY WPCP
WORKS NUMBER : 120003030
TREATMENT : EXTENDED AERATION
EXFILTRATION LAGOON

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.54 1000 m3
POPULATION SERVED : 500

1987	AVG DAY FLOW (1000 m3/d)	5 DAY BOD INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	SUSPENDED SOLIDS INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	TOTAL PHOSPHORUS INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.107	98.0	1.1		0.118	100.0	3.0		0.321	11.0	3.3	0.353
FEB	0.139	124.0	3.4		0.473	150.0	10.0		1.390	9.8	3.1	0.431
MAR	0.099	68.0	22.0		2.178	90.0	7.0		0.693	2.9	4.3	0.426
APR	0.105	120.0	2.6		0.273	120.0	10.0		1.050	4.2	2.7	0.284
MAY	0.124	130.0	1.8		0.223	150.0	4.0		0.496	10.0	3.2	0.397
JUN	0.101	106.0	8.4		0.848	100.0	20.0		2.020	11.0	3.6	0.364
JUL	0.202	58.0	5.6		1.131	80.0	15.0		3.030	4.0	3.6	0.727
AUG	ND	86.0	1.5		ND	180.0	4.0		ND	7.5	2.9	ND
SEP	ND	66.0	2.6		ND	55.0	1.0		ND	4.8	3.2	ND
OCT	0.071	95.0	20.0		1.420	150.0	10.0		0.710	6.3	2.6	0.185
NOV	0.065	ND	3.2		0.208	ND	4.0		0.260	ND	2.5	0.163
DEC	0.071	94.0	2.3		0.163	160.0	4.0		0.284	6.9	2.8	0.199
AVERAGE:	0.108	95.0	6.2		0.704	121.0	7.7		1.025	7.1	3.2	0.353
OBSERVATIONS:	10	11	12			11	12			11	12	
EXCEEDANCES												
NO OF SAMPLES		11	12			11	12			11	12	

COMPLIANCE :

BOD - YES
SS - YES
TP - YES

CRITERIA :

BOD - 25 mg/l
SS - 25 mg/l
TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

1987 WASTE WATER TREATMENT FACILITIES

MUNICIPALITY : THUNDER BAY
PLANT : THUNDER BAY WPCP
WORKS NUMBER : 120004805
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 109.10 1000 m3
POPULATION SERVED : 101527

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KAMINISTIKWIA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR
IJC DESIGNATION : DIRECT

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW (1000 m3/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	74.520	197.0	69.7	65	5194.044	392.0	60.5	85	4508.460	4.4	1.0	74.520
FEB	73.070	236.0	76.8	67	5611.776	553.0	79.5	86	5809.065	4.4	1.0	71.609
MAR	73.160	211.0	45.6	78	3336.096	668.0	96.6	86	7067.256	5.3	1.0	76.086
APR	71.490	174.0	60.5	65	4325.145	383.0	86.8	77	6205.332	4.9	1.1 *	80.784
MAY	78.800	168.0	55.5	67	4373.400	352.0	70.6	80	5563.280	4.8	1.5 *	117.412
JUN	81.870	148.0	64.3	57	5264.241	267.0	82.6	69	6762.462	4.8	1.1 *	91.694
JUL	88.200	162.0	61.8	62	5450.760	259.0	65.9	75	5812.380	5.1	0.9	77.616
AUG	92.190	97.0	30.3	69	2793.357	191.0	57.0	70	5254.830	4.5	0.7	63.611
SEP	93.710	152.0	69.0	55	6465.990	282.0	66.3	76	6212.973	3.3	0.9	88.087
OCT	86.230	157.0	69.4	56	5984.362	283.0	58.3	79	5027.209	3.4	1.0	86.230
NOV	82.220	165.0	43.0	74	3535.460	279.0	63.4	77	5212.748	3.8	1.0	78.931
DEC	77.900	164.0	47.0	71	3661.300	242.0	60.4	75	4705.160	3.9	0.9	68.552
AVERAGE:	81.113	169.0	57.7	66	4666.328	346.0	70.7	78	5678.430	4.4	1.0	81.261
OBSERVATIONS:	12	12	12			12	12			12	12	
EXCEEDANCES											3	
NO OF SAMPLES		40	46			221	284			226	316	

COMPLIANCE :

BOD - YES
SS - YES
TP - NO

CRITERIA :

BOD - 50%
SS - 70%
TP - 1.0 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
* - EXCEEDS EFFLUENT CRITERIA
ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NONE			

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MATHESON WPCP	BLACK RIVER MATHESON	B-326
MATTAGAMI WPCP	TIMMINS	B-396
MATTAWA LAGOON	MATTAWA	B-362
MATTICE LAGOON	MATTICE-VAL-COTE	B-363
MCGREGOR LAGOON	ANDERDON	B-9
MEAFORD WPCP	MEAFORD	B-55
MERLIN P.V. LAGOON	RALEIGH-TILBURY EAST	B-73
MERRICKVILLE WPCP	MERRICKVILLE	B-291
MIDLAND WPCP	MIDLAND	B-214
MIKKOLA WPCP	WALDEN	B-402
MILDMAY WPCP	MILDMAY	B-56
MILLBROOK WPCP	MILLBROOK	B-215
MILTON WPCP	MILTON	B-216
MILVERTON LAGOON	MILVERTON	B-57
MINDEN WPCP	ANSON HINDON MINDEN	B-173
MITCHELL LAGOON	MITCHELL	B-58
MITCHELL'S BAY LAGOON	DOVER	B-21
MOONBEAM LAGOON	MOONBEAM	B-366
MOOSONEE WPCP (NORTH)	MOOSONEE D.A.B.	B-367
MOOSONEE WPCP (OLD TOWNSITE)	MOOSONEE D.A.B.	B-368
MORRISBURG WPCP	MORRISBURG	B-292
MOUNT ALBERT WPCP	EAST GWILLIMBURY	B-195
MOUNT FOREST WPCP	MOUNT FOREST	B-141
MUNSTER LAGOON	GOULBOURN	B-279
NAKINA WPCP	NAKINA	B-425
NAPANEE WPCP	NAPANEE	B-293
NEUSTADT LAGOON	NORMANBY	B-62
NEW HAMBURG LAGOON	WILMOT	B-166
NEW LISKEARD LAGOON	NEW LISKEARD	B-369
NIAGARA-ON-THE-LAKE LAGOON	NIAGARA-ON-THE-LAKE	B-148
NIPIGON WPCP	NIPIGON	B-426
NOELVILLE LAGOON	COSBY M.M.	B-338
NONQUON RIVER LAGOON (PORT PERRY)	SCUGOG	B-238
NORTH BAY WPCP	NORTH BAY	B-374
NORTH COBALT LAGOON	HAILEYBURY	B-347
NORTH GOWARD LAGOON	TEMAGAMI	B-392
NORTH TORONTO WPCP (EAST YORK)	METRO TORONTO	B-213
NORWICH LAGOON	NORWICH	B-63
NORWOOD WPCP	NORWOOD	B-223
ODESSA WPCP	ERNESTOWN	B-275
OIL CITY LAGOON	ENNISKILLEN	B-28
OIL SPRINGS LAGOON	OIL SPRINGS	B-64
OMEMEE LAGOON	OMEMEE	B-226
ONAPING WPCP	ONAPING FALLS	B-378
OPASATIKA LAGOON	OPASATIKA	B-379
ORANGEVILLE WPCP	ORANGEVILLE	B-151
ORILLIA WPCP	ORILLIA	B-227
OSWEGO PARK LAGOON	DUNNVILLE	B-124
OWEN SOUND WPCP	OWEN SOUND	B-65
OXFORD WPCP	LONDON	B-48
PAISLEY WPCP	PAISLEY	B-66
PALMERSTON WPCP	PALMERSTON	B-152
PARIS WPCP	PARIS	B-153

PARKHILL LAGOON	MC GILLIVRAY	B-54
PARRY SOUND WPCP	PARRY SOUND	B-380
PEMBROKE WPCP	PEMBROKE	B-297
PENETANGUISHENE WPCP	PENETANGUISHENE	B-232
PERTH LAGOON	PERTH	B-298
PETAWAWA WPCP	PETAWAWA	B-299
PETERBOROUGH WPCP	PETERBOROUGH	B-234
PETROLIA WPCP + LAGOON	PETROLIA	B-67
PICKLE LAKE WPCP	PICKLE LAKE	B-427
PICTON WPCP	PICTON	B-300
PLANTAGENET LAGOON	PLANTAGENET	B-302
PLATTSVILLE LAGOON	BLANDFORD-BLENHEIM	B-13
POINT EDWARD WPCP	POINT EDWARD	B-69
PORQUIS JUNCTION LAGOON	IROQUOIS FALLS	B-353
PORT BURWELL WPCP	PORT BURWELL	B-70
PORT CARLING WPCP	MUSKOKA LAKES	B-220
PORT DALHOUSIE WPCP	ST CATHARINES	B-159
PORT DARLINGTON WPCP	NEWCASTLE	B-222
PORT DOVER WPCP	NANTICOKE	B-143
PORT ELGIN WPCP	PORT ELGIN	B-71
PORT HOPE WPCP	PORT HOPE	B-236
PORT LAMBTON LAGOON	SOMBRA	B-80
PORT MCNICOLL WPCP	PORT MCNICOLL	B-237
PORT ROWAN LAGOON	NORFOLK	B-149
PORT STANLEY LAGOON	PORT STANLEY	B-72
PORT WELLER WPCP	ST CATHARINES	B-160
POTTERSBURG WPCP	LONDON	B-49
POWASSAN LAGOON	POWASSAN	B-381
PRESTON WPCP	CAMBRIDGE	B-119
PRINGLE CREEK WPCP NO 1	WHITBY	B-247
PRINGLE CREEK WPCP NO 2	WHITBY	B-248
RAINY RIVER LAGOON	ATWOOD	B-409
RAMORE LAGOON	BLACK RIVER MATHESON	B-327
RED LAKE WPCP	RED LAKE	B-428
RED ROCK WPCP	RED ROCK	B-429
RENFREW WPCP	RENFREW	B-304
RIDGETOWN LAGOON	RIDGETOWN	B-74
ROCKLAND LAGOON	ROCKLAND	B-305
RODNEY LAGOON	RODNEY	B-75
RUSSELL LAGOON	RUSSELL	B-307
SARNIA WPCP	SARNIA	B-78
SAULT STE.MARIE WPCP	SAULT STE MARIE	B-386
SCHREIBER WPCP	SCHREIBER	B-430
SEAFORTH LAGOON	SEAFORTH	B-79
SEAWAY WPCP	PORT COLBORNE	B-154
SHELBURNE WPCP	SHELBURNE	B-156
SIMCOE WPCP	SIMCOE	B-157
SIOUX LOOKOUT WPCP	SIOUX LOOKOUT	B-431
SKYWAY WPCP	BURLINGTON	B-185
SMITHS FALLS WPCP	SMITHS FALLS	B-309
SMITHVILLE LAGOON	WEST LINCOLN	B-164
SMOOTH ROCK FALLS WPCP	SMOOTH ROCK FALLS	B-388
SOMBRA LAGOON	SOMBRA	B-81
SOUTH EAST WPCP	OAKVILLE	B-224
SOUTH WEST WPCP	OAKVILLE	B-225
SOUTHAMPTON WPCP	SOUTHAMPTON	B-82
SOUTHLAND PARK WPCP	WESTMINSTER	B-102
ST GEORGE PV WPCP	SOUTH DUMFRIES	B-158

ST MARYS WPCP	ST MARYS	B-84
ST THOMAS WPCP	ST THOMAS	B-85
ST. CHARLES LAGOON	CASIMIR J.A.	B-335
ST. ISIDORE LAGOON	ST ISIDORE DE PRESCOTT	B-310
ST. JACOBS PV WPCP	WOOLWICH	B-168
STAMFORD WPCP	NIAGARA FALLS	B-147
STAYNER LAGOON	STAYNER	B-240
STELCO IND. PARK LAGOON	NANTICOKE	B-144
STEVENSVILLE-DOUGLASTOWN LAGOON	FORT ERIE	B-130
STIRLING LAGOON	STIRLING	B-311
STONEY POINT P.V. LAGOON	TILBURY NORTH	B-94
STOUFFVILLE WPCP	WHITCHURCH-STOUFFVILLE	B-249
STRATFORD WPCP	STRATFORD	B-88
STRATHROY LAGOON	STRATHROY	B-89
STURGEON FALLS WPCP	STURGEON FALLS	B-389
SUDBURY WPCP	SUDBURY	B-390
SUNDRIDGE LAGOON	SUNDRIDGE	B-391
SUTTON WPCP	GEORGINA	B-200
SWASTIKA WPCP	KIRKLAND LAKE	B-358
TARA LAGOON	ARRAN	B-10
TAVISTOCK LAGOON	EAST ZORRA-TAVISTOCK	B-27
TEMAGAMI LAGOON	TEMAGAMI	B-393
TERRACE BAY LAGOON	TERRACE BAY	B-432
TERRACE BAY WPCP	TERRACE BAY	B-433
THAMESVILLE WPCP	THAMESVILLE	B-90
THEDFORD LAGOON	THEDFORD	B-91
THESSALON LAGOON	THESSALON	B-394
THORNBURY LAGOON	THORNBURY	B-92
THUNDER BAY WPCP	THUNDER BAY	B-434
TILBURY LAGOON	TILBURY	B-93
TILLSONBURG WPCP	TILLSONBURG	B-96
TOBERMORY LAGOON	ST EDMUNDS	B-83
TOTTENHAM LAGOON	TOTTENHAM	B-241
TOWNSEND LAGOON	NANTICOKE	B-145
TRENTON WPCP	TRENTON	B-312
TWEED LAGOON	TWEED	B-313
UXBRIDGE BROOK WPCP	UXBRIDGE	B-242
VAL GAGNE LAGOON	BLACK RIVER MATHESON	B-328
VAL-RITA LAGOON	VAL RITA-HARTY	B-399
VAN ASTRA WPCP	TUCKERSMITH	B-97
VANKLEEK HILL LAGOON	VANKLEEK HILL	B-314
VAUXHALL WPCP	LONDON	B-50
VERNER LAGOON	CALDWELL	B-332
VICTORIA HARBOUR WPCP	VICTORIA HARBOUR	B-244
VIRGINIATOWN AND KEARNS WPCP	MCGARRY	B-364
WAHNAPITAE LAGOON	NICKEL CENTRE	B-373
WALKERTON WPCP	WALKERTON	B-98
WALLACEBURG WPCP	WALLACEBURG	B-99
WARKWORTH LAGOON	PERCY	B-233
WARREN LAGOON	RATTER & DUNNET	B-382
WASAGA BEACH WPCP	WASAGA BEACH	B-245
WATERDOWN WPCP	FLAMBOROUGH	B-127
WATERFORD LAGOON	NANTICOKE	B-146
WATERLOO WPCP	WATERLOO	B-161
WATFORD LAGOON	WATFORD	B-100
WATTS CREEK WPCP	NEPEAN	B-295
WAWA LAGOON	MICHIPICOTEN	B-365

WEBBWOOD LAGOON	WEBBWOOD	B-403
WELLAND WPCP	WELLAND	B-162
WELLESLEY WPCP	WELLESLEY	B-163
WELLINGTON WPCP	WELLINGTON	B-315
WEST END WPCP	SAULT STE MARIE	B-387
WEST LORNE LAGOON	WEST LORNE	B-101
WEST PLANT	PORT COLBORNE	B-155
WESTERLY WPCP	WINDSOR	B-106
WESTMINSTER WPCP	WESTMINSTER	B-103
WESTPORT LAGOON	WESTPORT	B-316
WHEATLY WPCP	ROMNEY	B-76
WHITE RIVER LAGOON	WHITE RIVER	B-404
WHITNEY & TISDALE WPCP	TIMMINS	B-397
WIARTON LAGOON	WIARTON	B-104
WILLIAMSBURG PV LAGOON	WILLIAMSBURG	B-317
WINCHESTER LAGOON	WINCHESTER	B-318
WINGHAM LAGOON	WINGHAM	B-107
WOODLAND ACRES WPCP	SMITH	B-239
WOODSTOCK WPCP	WOODSTOCK	B-108
WOODWARD AVE. WPCP	HAMILTON	B-138
WYOMING WPCP	PLYMPTON	B-68
ZURICH LAGOON	ZURICH	B-109

APPENDIX C

RAW SEWAGE AND SECONDARY BYPASS DATA FOR 1987

ABBREVIATIONS FOR APPENDIX C

Hrs .... Hours

# of times ... Number of bypass occurrences

1000 m3 ...... Thousands of cubic meters

WPCP .... Water Pollution Control Plant

SOUTHWEST REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : CHATHAM
PLANT : CHATHAM WPCP
WORKS NUMBER : 110000098
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 35.91 1000 m3
POPULATION SERVED : 41000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	26.820	-	-
FEB	-	-	-	18.630	-	-
MAR	-	-	-	43.640	-	-
APR	-	-	-	83.640	-	-
MAY	-	-	-	65.910	-	-
JUN	-	-	-	48.640	-	-
JUL	-	-	-	33.640	-	-
AUG	-	-	-	144.100	-	-
SEP	-	-	-	183.200	-	-
OCT	-	-	-	105.000	-	-
NOV	-	-	-	190.900	-	-
DEC	-	-	-	284.500	-	-
TOTAL				1228.620		
OBSERVATIONS	0	0	0	12	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			12.611%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : GODERICH
PLANT : GODERICH WPCP
WORKS NUMBER : 120000943
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 7400

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	1.8	2	-	-	-
MAY	-	1.5	1	-	-	-
JUN	-	5.0	5	-	-	-
JUL	-	6.0	2	-	-	-
AUG	-	10.0	5	-	-	-
SEP	-	2.5	2	-	-	-
OCT	-	5.7	5	-	-	-
NOV	-	16.8	4	-	-	-
DEC	-	19.5	4	-	-	-
TOTAL		68.8	30			
OBSERVATIONS	0	9	9	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
PLANT : GREENWAY WPCP
WORKS NUMBER : 120000863
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 124.33 1000 m3
POPULATION SERVED : 168274

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	0.636	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	26.818	-	-
APR	-	-	-	65.136	-	-
MAY	-	-	-	11.910	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	20.500	-	-
SEP	-	-	-	16.818	-	-
OCT	-	-	-	0.091	-	-
NOV	-	-	-	62.500	-	-
DEC	-	-	-	102.000	-	-
TOTAL				306.409		
OBSERVATIONS	0	0	0	9	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.758%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
PLANT : POTTERSBURG WPCP
WORKS NUMBER : 120000836
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 22.04 1000 m3
POPULATION SERVED : 25653

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	2.250	-	-	-	-	-
APR	2.641	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	0.545	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	0.664	-	-	-	-	-
SEP	4.545	-	-	-	-	-
OCT	0.786	-	-	-	-	-
NOV	10.127	-	-	-	-	-
DEC	9.809	-	-	-	-	-
TOTAL	31.367					
OBSERVATIONS	8	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.517%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	:	MAIDSTONE	REGION	:	SOUTHWEST
PLANT	:	BELLE RIVER-MAIDSTONE WPCP	DISTRICT	:	WINDSOR
WORKS NUMBER	:	110002078	OPERATING AUTHORITY	:	MINISTRY
TREATMENT	:	EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	:	LAKE ST.CLAIR
			MAJOR BASIN	:	GREAT LAKES
			MINOR BASIN	:	LAKE ERIE
DESIGN CAPACITY	:	6.81 1000 m3	IJC DESIGNATION	:	DIRECT
POPULATION SERVED	:	7448			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	20.100	38.0	1	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	20.100	38.0	1			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.983%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : MEAFORD
PLANT : MEAFORD WPCP
WORKS NUMBER : 110000445
TREATMENT : HIGH RATE

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GEORGIAN BAY
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 3.90 1000 m3
POPULATION SERVED : 4159

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	0.014	0.5	1	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.014	0.5	1			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.001%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : PORT ELGIN
PLANT : PORT ELGIN WPCP
WORKS NUMBER : 120001470
TREATMENT : OXIDATION DITCH

DESIGN CAPACITY : 6.45 1000 m3
POPULATION SERVED : 6115

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.580	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	0.680	-	-	-	-	-
TOTAL	1.260					
OBSERVATIONS	2	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.046%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	SOUTHAMPTON	REGION	SOUTHWEST
PLANT	SOUTHAMPTON WPCP	DISTRICT	OWEN SOUND
WORKS NUMBER	110001453	OPERATING AUTHORITY	MINISTRY
TREATMENT	OXIDATION DITCH	WATERCOURSE	SAUGEEN R.
		MAJOR BASIN	GREAT LAKES
		MINOR BASIN	LAKE HURON
DESIGN CAPACITY	3.04 1000 m3	IJC DESIGNATION	INDIRECT
POPULATION SERVED	2680		

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	0.060	0.7	-	-	-	-
TOTAL	0.060	0.7				
OBSERVATIONS	1	1	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.015%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : STEPHEN
PLANT : HURON PARK WPCP
WORKS NUMBER : 110003488
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 1400

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AUSABLE R
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	0.100	2.0	1	-	-	-
MAR	0.300	12.0	1	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	0.070	2.5	1	-	-	-
SEP	0.050	2.0	1	-	-	-
OCT	0.860	17.0	3	-	-	-
NOV	2.160	62.0	4	-	-	-
DEC	3.060	71.0	5	-	-	-
TOTAL	6.600	168.5	16			
OBSERVATIONS	7	7	7	0	0	0
PERCENTAGE OF PLANT EFFLUENT	1.344%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : STRATFORD
PLANT : STRATFORD WPCP
WORKS NUMBER : 110000702
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 27.27 1000 m3
POPULATION SERVED : 26197

REGION : SOUTHWEST
DISTRICT : LONDON NORTH
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : AVON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

PLANT BYPASS				SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	46.0	-	54.300	82.8	6
APR	-	-	-	22.300	56.8	3
MAY	-	6.0	-	3.700	6.0	1
JUN	-	-	-	-	-	-
JUL	-	-	-	2.600	2.0	1
AUG	-	-	-	2.090	4.1	2
SEP	-	-	-	-	-	-
OCT	-	3.0	-	1.250	10.0	3
NOV	-	9.3	-	19.000	33.5	2
DEC	-	22.0	-	39.290	62.8	5
TOTAL		86.3		144.530	258.0	23
OBSERVATIONS	0	5	0	8	8	8
PERCENTAGE OF PLANT EFFLUENT	0.000%			2.264%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : TUCKERSMITH
PLANT : VAN ASTRA WPCP
WORKS NUMBER : 110003013
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.40 1000 m3
POPULATION SERVED : 1000

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MUN DRAIN TO BAYFIELD R.
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	0.5	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	11.0	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL		11.5				
OBSERVATIONS	0	2	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : WALKERTON
PLANT : WALKERTON WPCP
WORKS NUMBER : 120001489
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 7.54 1000 m3
POPULATION SERVED : 4591

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	5.466	120.0	-	-	-	-
MAY	-	-	-	-	-	-
JUN	0.759	24.0	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	6.225	144.0				
OBSERVATIONS	2	2	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.319%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
PLANT : LITTLE RIVER WPCP
WORKS NUMBER : 120001096
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 64000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LITTLE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	58.900	-	-	-	-	-
FEB	104.000	-	-	-	-	-
MAR	184.000	-	-	-	-	-
APR	279.000	-	-	-	-	-
MAY	89.000	-	-	-	-	-
JUN	235.200	-	-	-	-	-
JUL	184.500	-	-	-	-	-
AUG	216.400	-	-	-	-	-
SEP	185.800	-	-	-	-	-
OCT	37.300	-	-	-	-	-
NOV	159.900	-	-	-	-	-
DEC	426.500	-	-	-	-	-
TOTAL	2160.500					
OBSERVATIONS	12	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	18.067%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
PLANT : WESTERLY WPCP
WORKS NUMBER : 120001103
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 163.65 1000 m3
POPULATION SERVED : 123000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	25.000	-	-	-	-	-
MAY	15.800	-	-	-	-	-
JUN	102.300	-	-	-	-	-
JUL	46.100	-	-	-	-	-
AUG	47.600	-	-	-	-	-
SEP	28.000	-	-	-	-	-
OCT	520.000	-	-	-	-	-
NOV	64.600	-	-	-	-	-
DEC	59.200	-	-	-	-	-
TOTAL	908.600					
OBSERVATIONS	9	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	2.018%			0.000%		

WEST CENTRAL REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : DUNNVILLE
PLANT : DUNNVILLE WPCP
WORKS NUMBER : 120001443
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 7.72 1000 m3
POPULATION SERVED : 5471

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	0.2	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	1.5	-	-	-	-
APR	-	166.9	-	-	-	-
MAY	-	4.3	-	-	-	-
JUN	-	2.5	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	7.2	-	-	-	-
SEP	-	44.4	-	-	-	-
OCT	-	2.1	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL		229.1				
OBSERVATIONS	0	8	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY :	FERGUS		REGION :	WEST CENTRAL
PLANT :	FERGUS WPCP		DISTRICT :	CAMBRIDGE
WORKS NUMBER :	110000249		OPERATING AUTHORITY :	MINISTRY
TREATMENT :	CONVENTIONAL ACTIVATED SLUDGE		WATERCOURSE :	GRAND RIVER
	PHOSPHORUS REMOVAL-CONTINUOUS		MAJOR BASIN :	GREAT LAKES
			MINOR BASIN :	LAKE ERIE
DESIGN CAPACITY :	5.00 1000 m3		IJC DESIGNATION :	INDIRECT
POPULATION SERVED :	6050			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	3.789	40.0	-	-	-	-
MAY	0.021	0.3	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	3.810	40.3				
OBSERVATIONS	2	2	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.253%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : CALEDONIA WPCP
WORKS NUMBER : 120001452
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 2.27 1000 m3
POPULATION SERVED : 4237

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	24.970	129.5	8
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	3.390	20.5	1
DEC	-	-	-	7.540	41.8	2
TOTAL				35.900	191.8	11
OBSERVATIONS	0	0	0	3	3	3
PERCENTAGE OF PLANT EFFLUENT	0.000%			4.256%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : CAYUGA WPCP
WORKS NUMBER : 110000089
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.90 1000 m3
POPULATION SERVED : 1049

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : GRAND RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	1.856	25.0	-	6.549	79.0	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	3.008	26.0	-
DEC	-	-	-	1.738	27.0	2
TOTAL	1.856	25.0		11.295	132.0	2
OBSERVATIONS	1	1	0	3	3	1
PERCENTAGE OF PLANT EFFLUENT	1.029%			6.264%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : HAGERSVILLE WPCP
WORKS NUMBER : 110001024
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 1.00 1000 m3
POPULATION SERVED : 2362

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SANDUSK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	0.798	54.0	3	-	-	-
FEB	-	-	-	-	-	-
MAR	1.100	64.0	4	-	-	-
APR	5.020	205.0	-	-	-	-
MAY	0.019	1.0	1	-	-	-
JUN	0.152	12.0	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	0.237	48.0	4	-	-	-
DEC	0.046	44.0	5	-	-	-
TOTAL	7.372	428.0	17			
OBSERVATIONS	7	7	5	0	0	0
PERCENTAGE OF PLANT EFFLUENT	1.884%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HAMILTON
PLANT : WOODWARD AVE.WPCP (OFFSITE CHEM.ADDN)
WORKS NUMBER : 120001504
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 409.14 1000 m3
POPULATION SERVED : 300000

REGION : WEST CENTRAL
DISTRICT : HAMILTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : REDHILL CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	68.000	-	-
FEB	-	-	-	-	-	-
MAR	14.000	-	-	17.000	-	-
APR	37.800	-	-	-	-	-
MAY	3.800	-	-	-	-	-
JUN	22.500	-	-	4.500	-	-
JUL	18.000	-	-	-	-	-
AUG	16.000	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	21.500	-	-	-	-	-
DEC	17.000	-	-	141.000	-	-
TOTAL	150.600			230.500		
OBSERVATIONS	8	0	0	4	0	0
PERCENTAGE OF PLANT EFFLUENT	0.135%			0.206%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : NIAGARA FALLS
PLANT : STAMFORD WPCP
WORKS NUMBER : 120001363
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 58.18 1000 m3
POPULATION SERVED : 67835

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CHIPPAWA POWER CANAL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	245.893	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	23.480	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	265.855	-	-	-	-	-
DEC	117.259	-	-	-	-	-
TOTAL	652.487					
OBSERVATIONS	4	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	3.119%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
PLANT : PORT DALHOUSIE WPCP
WORKS NUMBER : 120001327
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 61.37 1000 m3
POPULATION SERVED : 60430

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.475	-	-	-	-	-
APR	0.475	-	-	-	-	-
MAY	0.475	-	-	-	-	-
JUN	0.475	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	0.475	-	-	-	-	-
NOV	0.475	-	-	-	-	-
DEC	0.475	-	-	-	-	-
TOTAL	3.325					
OBSERVATIONS	7	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.021%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
PLANT : PORT WELLER WPCP
WORKS NUMBER : 120001318
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 37.50 1000 m3
POPULATION SERVED : 75690

REGION : WEST CENTRAL
DISTRICT : WELLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLER HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.475	-	-	-	-	-
APR	0.475	-	-	-	-	-
MAY	0.475	-	-	-	-	-
JUN	0.475	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	0.475	-	-	-	-	-
NOV	0.475	-	-	-	-	-
DEC	0.475	-	-	-	-	-
TOTAL	3.325					
OBSERVATIONS	7	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.022%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	:	WOOLWICH	REGION	:	WEST CENTRAL
PLANT	:	ELMIRA WPCP (COMBINED FLOW)	DISTRICT	:	CAMBRIDGE
WORKS NUMBER	:	110000150	OPERATING AUTHORITY	:	MINISTRY
TREATMENT	:	CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	:	CANAGAGIGUE CREEK
			MAJOR BASIN	:	GREAT LAKES
			MINOR BASIN	:	LAKE ERIE
DESIGN CAPACITY	:	4.54 1000 m3	IJC DESIGNATION	:	INDIRECT
POPULATION SERVED	:	7090			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	0.461	-	-	-	-	-
NOV	6.228	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	6.689					
OBSERVATIONS	2	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.415%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : WOOLWICH
PLANT : ST.JACOBS PV WPCP
WORKS NUMBER : 110001211
TREATMENT : OXIDATION DITCH
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 1266

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : CONESTOGO RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	0.304	5.3	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL				0.304	5.3	
OBSERVATIONS	0	0	0	1	1	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.082%		

CENTRAL REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : BURLINGTON
PLANT : SKYWAY WPCP
WORKS NUMBER : 110000070
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 93.19 1000 m3
POPULATION SERVED : 120100

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HAMILTON HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	0.214	-	-
FEB	-	-	-	16.383	-	-
MAR	-	-	-	2.505	-	-
APR	-	-	-	133.479	-	-
MAY	-	-	-	0.207	-	-
JUN	-	-	-	1.033	-	-
JUL	-	-	-	5.917	-	-
AUG	-	-	-	21.772	-	-
SEP	-	-	-	0.584	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	26.554	-	-
DEC	-	-	-	44.306	-	-
TOTAL				252.954		
OBSERVATIONS	0	0	0	11	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			1.034%		

1987 BYPASS OCCURRENCES

MUNICIPALITY :	CAMPBELLFORD	REGION :	CENTRAL
PLANT :	CAMPBELLFORD WPCP	DISTRICT :	PETERBOROUGH
WORKS NUMBER :	110000962	OPERATING AUTHORITY :	MINISTRY
TREATMENT :	CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE :	TRENT RIVER
		MAJOR BASIN :	GREAT LAKES
		MINOR BASIN :	LAKE ONTARIO
DESIGN CAPACITY :	5.90 1000 m3	IJC DESIGNATION :	INDIRECT
POPULATION SERVED :	3247		

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	1.860	-	18	-	-	-
FEB	4.090	-	12	-	-	-
MAR	23.830	-	18	-	-	-
APR	9.040	-	8	-	-	-
MAY	4.320	-	23	-	-	-
JUN	6.740	-	23	-	-	-
JUL	6.830	-	23	-	-	-
AUG	11.320	-	29	-	-	-
SEP	13.290	-	30	-	-	-
OCT	7.460	-	31	-	-	-
NOV	13.990	-	20	-	-	-
DEC	1.130	-	11	-	-	-
TOTAL	103.900		246			
OBSERVATIONS	12	0	12	0	0	0
PERCENTAGE OF PLANT EFFLUENT	4.494%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 1
WORKS NUMBER : 120000097
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 16.04 1000 m3
POPULATION SERVED : 5500

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COBOURG BROOK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	0.681	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL				0.681		
OBSERVATIONS	0	0	0	1	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.025%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : METRO TORONTO
PLANT : HUMBER WPCP (ETOBICOKE)
WORKS NUMBER : 120000382
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 409.14 1000 m3
POPULATION SERVED : 660000

REGION : CENTRAL
DISTRICT : METRO TORONTO WEST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	7.800	-	-
APR	-	-	-	30.900	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	14.200	-	-
JUL	-	-	-	11.400	-	-
AUG	-	-	-	9.000	-	-
SEP	-	-	-	35.200	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	42.400	-	-
DEC	-	-	-	1.900	-	-
TOTAL				152.800		
OBSERVATIONS	0	0	0	8	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.104%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : METRO TORONTO
PLANT : MAIN WPCP (TORONTO)
WORKS NUMBER : 120000391
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 818.28 1000 m3
POPULATION SERVED : 1200000

REGION : CENTRAL
DISTRICT : METRO TORONTO EAST
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	57.300	-	-
APR	-	-	-	10.900	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	9.400	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	11.500	-	-
SEP	-	-	-	56.100	-	-
OCT	-	-	-	30.000	-	-
NOV	-	-	-	13.400	-	-
DEC	-	-	-	4.700	-	-
TOTAL				193.300		
OBSERVATIONS	0	0	0	8	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.069%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : MILTON
PLANT : MILTON WPCP
WORKS NUMBER : 120001014
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING
DESIGN CAPACITY : 12.91 1000 m3
POPULATION SERVED : 23203

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OAKVILLE CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	0.265	-	-
DEC	-	-	-	0.810	-	-
TOTAL				1.075		
OBSERVATIONS	0	0	0	2	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.029%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : MISSISSAUGA
PLANT : LAKEVIEW WPCP SOUTH-PEEL SYSTEM
WORKS NUMBER : 110001284
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 284.12 1000 m3
POPULATION SERVED : 370000

REGION : CENTRAL
DISTRICT : HALTON PEEL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	9.182	7.0	1
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	13.950	5.5	1
JUL	64.660	14.0	4	36.600	3.0	1
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	6.101	5.0	1
DEC	-	-	-	-	-	-
TOTAL	64.660	14.0	4	65.833	20.5	4
OBSERVATIONS	1	1	1	4	4	4
PERCENTAGE OF PLANT EFFLUENT	0.069%			0.070%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	:	NEWCASTLE	REGION	:	CENTRAL
PLANT	:	PORT DARLINGTON WPCP	DISTRICT	:	YORK DURHAM
WORKS NUMBER	:	120003076	OPERATING AUTHORITY	:	MUNICIPAL
TREATMENT	:	CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	:	LAKE ONTARIO
			MAJOR BASIN	:	GREAT LAKES
			MINOR BASIN	:	LAKE ONTARIO
DESIGN CAPACITY	:	4.54 1000 m3	IJC DESIGNATION	:	DIRECT
POPULATION SERVED	:	12831			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	8.100	-	-
APR	-	-	-	4.500	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	7.200	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	21.600	-	-
DEC	-	-	-	12.900	-	-
TOTAL				54.300		
OBSERVATIONS	0	0	0	5	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			1.993%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : PETERBOROUGH
PLANT : PETERBOROUGH WPCP
WORKS NUMBER : 120000676
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 68.19 1000 m3
POPULATION SERVED : 61063

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTONABEE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	94.690	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL				94.690		
OBSERVATIONS	0	0	0	1	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.511%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : WHITBY
PLANT : CORBETT CREEK WPCP
WORKS NUMBER : 120000738
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 36.36 1000 m3
POPULATION SERVED : 26100

REGION : CENTRAL
DISTRICT : YORK DURHAM
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	4.300	-	-
APR	-	-	-	6.816	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	4.546	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL				15.662		
OBSERVATIONS	0	0	0	3	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.224%		

SOUTHEAST REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : BATH
PLANT : BATH WPCP
WORKS NUMBER : 120000177
TREATMENT : EXTENDED AERATION

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 1.16 1000 m3
POPULATION SERVED : 1500

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	0.409	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.409					
OBSERVATIONS	1	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.111%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : BELLEVILLE
PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY)
WORKS NUMBER : 110000016
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 54.55 1000 m3
POPULATION SERVED : 35351

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	64.700	120.0	-
FEB	-	-	-	53.800	82.0	11
MAR	-	-	-	339.900	336.0	31
APR	-	-	-	310.500	204.0	30
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	9.200	12.0	3
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	107.200	73.0	30
DEC	-	-	-	180.500	172.0	31
TOTAL				1065.800	999.0	136
OBSERVATIONS	0	0	0	7	7	6
PERCENTAGE OF PLANT EFFLUENT	0.000%			9.053%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	BROCKVILLE		REGION	SOUTHEAST
PLANT	BROCKVILLE WPCP		DISTRICT	KINGSTON
WORKS NUMBER	120000122		OPERATING AUTHORITY	MUNICIPAL
TREATMENT	PRIMARY PHOSPHORUS REMOVAL-CONTINUOUS		WATERCOURSE	ST.LAWRENCE RIVER
			MAJOR BASIN	GREAT LAKES
DESIGN CAPACITY	25.57 1000 m3		MINOR BASIN	ST. LAWRENCE RIVER
POPULATION SERVED	20169		IJC DESIGNATION	DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	9.090	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	13.636	-	-	-	-	-
DEC	9.090	-	-	-	-	-
TOTAL	31.816					
OBSERVATIONS	3	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.514%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : CARLETON PLACE
PLANT : CARLETON PLACE WPCP
WORKS NUMBER : 110000971
TREATMENT : HIGH RATE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 5.45 1000 m3
POPULATION SERVED : 5721

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MISSISSIPPI RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	442.7	-	-	-	-
FEB	-	433.8	-	-	-	-
MAR	-	726.0	-	-	-	-
APR	-	720.0	-	-	-	-
MAY	-	744.0	-	-	-	-
JUN	-	720.0	-	-	-	-
JUL	-	744.0	-	-	-	-
AUG	-	744.0	-	-	-	-
SEP	-	414.0	-	-	-	-
OCT	-	744.0	-	-	-	-
NOV	-	720.0	-	-	-	-
DEC	-	744.0	-	-	-	-
TOTAL		7896.5				
OBSERVATIONS	0	12	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : COBDEN
PLANT : COBDEN WPCP
WORKS NUMBER : 120000596
TREATMENT : EXTENDED AERATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.68 1000 m3
POPULATION SERVED : 1035

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKRAT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	1.850	-	-	-	-	-
APR	1.790	-	-	-	-	-
MAY	0.100	-	-	-	-	-
JUN	0.120	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	0.090	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	3.950					
OBSERVATIONS	5	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	1.437%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY :	ERNESTOWN	REGION :	SOUTHEAST
PLANT :	ODESSA WPCP	DISTRICT :	KINGSTON
WORKS NUMBER :	110002041	OPERATING AUTHORITY :	MINISTRY
TREATMENT :	EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE :	MILLHAVEN CREEK
		MAJOR BASIN :	GREAT LAKES
		MINOR BASIN :	LAKE ONTARIO
DESIGN CAPACITY :	0.90 1000 m3	IJC DESIGNATION :	INDIRECT
POPULATION SERVED :	973		

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	0.375	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.375					
OBSERVATIONS	1	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.096%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	:	FRANKFORD	REGION	:	SOUTHEAST
PLANT	:	FRANKFORD WPCP	DISTRICT	:	KINGSTON
WORKS NUMBER	:	110000267	OPERATING AUTHORITY	:	MINISTRY
TREATMENT	:	CONTACT STABILIZATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	:	TRENT RIVER
			MAJOR BASIN	:	GREAT LAKES
			MINOR BASIN	:	LAKE ONTARIO
DESIGN CAPACITY	:	1.36 1000 m3	IJC DESIGNATION	:	INDIRECT
POPULATION SERVED	:	1970			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	20.910	294.0	16	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	20.910	294.0	16			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	5.101%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HAWKESBURY
PLANT : HAWKESBURY WPCP
WORKS NUMBER : 110002283
TREATMENT : MODIFIED ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 12.27 1000 m3
POPULATION SERVED : 9680

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	0.528	0.1	1	-	-	-
MAY	6.599	-	7	1.500	-	-
JUN	10.823	2.4	6	-	-	-
JUL	10.823	2.5	6	-	-	-
AUG	-	-	-	1.056	0.2	3
SEP	26.657	6.0	6	-	-	-
OCT	0.264	0.1	1	-	-	-
NOV	38.011	8.6	6	-	-	-
DEC	2.111	0.5	2	-	-	-
TOTAL	95.816	20.2	35	2.556	0.2	3
OBSERVATIONS	8	7	8	2	1	1
PERCENTAGE OF PLANT EFFLUENT	2.536%			0.068%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : KINGSTON
PLANT : KINGSTON WPCP (CITY)
WORKS NUMBER : 120001050
TREATMENT : PRIMARY
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 61.37 1000 m3
POPULATION SERVED : 67000

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	22.727	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	136.363	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	159.090					
OBSERVATIONS	2	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.687%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : KINGSTON
PLANT : KINGSTON WPCP (TOWNSHIP)
WORKS NUMBER : 110000365
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 25.00 1000 m3
POPULATION SERVED : 28000

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	18.0	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL					18.0	
OBSERVATIONS	0	0	0	0	1	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : L'ORIGNAL
PLANT : L'ORIGNAL WPCP
WORKS NUMBER : 110001701
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 1523

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	1.804	41.0	8	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	1.804	41.0	8			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.692%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : NEPEAN
PLANT : WATTS CREEK WPCP
WORKS NUMBER : 120000701
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 29.54 1000 m3
POPULATION SERVED : 52500

REGION : SOUTHEAST
DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WATTS CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	2.300	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	391.200	-	-
APR	-	-	-	274.500	-	-
MAY	-	-	-	0.500	-	-
JUN	-	-	-	0.200	-	-
JUL	-	-	-	40.200	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	16.500	-	-
DEC	-	-	-	77.800	-	-
TOTAL				803.200		
OBSERVATIONS	0	0	0	8	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			7.553%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : OSNABRUCK
PLANT : INGLESIDE WPCP
WORKS NUMBER : 120000140
TREATMENT : PRIMARY

DESIGN CAPACITY : 1.57 1000 m3
POPULATION SERVED : 1500

REGION : SOUTHEAST
DISTRICT : CORNWALL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	1.818	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	1.031	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	3.637	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	6.486					
OBSERVATIONS	3	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	1.361%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY :	PICTON	REGION :	SOUTHEAST
PLANT :	PICTON WPCP	DISTRICT :	KINGSTON
WORKS NUMBER :	120000667	OPERATING AUTHORITY :	MUNICIPAL
TREATMENT :	CONTACT STABILIZATION PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE :	PICTON BAY
		MAJOR BASIN :	GREAT LAKES
		MINOR BASIN :	LAKE ONTARIO
DESIGN CAPACITY :	4.54 1000 m3	IJC DESIGNATION :	DIRECT
POPULATION SERVED :	4500		

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	4.546	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	3.309	-	-
DEC	-	-	-	-	-	-
TOTAL				7.855		
OBSERVATIONS	0	0	0	2	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.745%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	: PRESCOTT	REGION	: SOUTHEAST
PLANT	: EDWARDSBURGH WPCP	DISTRICT	: KINGSTON
WORKS NUMBER	: 110001122	OPERATING AUTHORITY	: MINISTRY
TREATMENT	: PRIMARY PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	: ST. LAWRENCE RIVER
		MAJOR BASIN	: GREAT LAKES
		MINOR BASIN	: ST. LAWRENCE RIVER
DESIGN CAPACITY	: 5.68 1000 m3	IJC DESIGNATION	: DIRECT
POPULATION SERVED	: 4595		

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	1.4	-	-	21.0	-
MAR	-	75.0	-	-	88.0	-
APR	-	17.0	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	8.5	-	-	4.4	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	47.0	-	-	27.0	-
DEC	-	4.2	-	-	-	-
TOTAL		153.1			140.4	
OBSERVATIONS	0	6	0	0	4	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : SIDNEY
PLANT : BATAWA WPCP
WORKS NUMBER : 110000668
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 0.56 1000 m3
POPULATION SERVED : 300

REGION : SOUTHEAST
DISTRICT : KINGSTON
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : TRENT RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	10.860	-	-
FEB	-	-	-	8.810	-	28
MAR	-	-	-	13.090	-	31
APR	-	-	-	10.580	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	9.060	-	-
JUL	-	-	-	5.240	-	20
AUG	-	-	-	1.130	-	10
SEP	-	-	-	0.380	-	-
OCT	-	-	-	0.720	-	4
NOV	-	-	-	2.680	-	-
DEC	-	-	-	8.750	-	-
TOTAL				71.300		93
OBSERVATIONS	0	0	0	11	0	5
PERCENTAGE OF PLANT EFFLUENT	0.000%			16.499%		

1987 BYPASS OCCURRENCES

MUNICIPALITY :	TRENTON	REGION	:	SOUTHEAST
PLANT :	TRENTON WPCP	DISTRICT	:	KINGSTON
WORKS NUMBER :	110000775	OPERATING AUTHORITY	:	MINISTRY
TREATMENT :	CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS	WATERCOURSE	:	BAY OF QUINTE
		MAJOR BASIN	:	GREAT LAKES
		MINOR BASIN	:	LAKE ONTARIO
DESIGN CAPACITY :	15.91 1000 m3	IJC DESIGNATION	:	DIRECT
POPULATION SERVED :	15346			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	49.810	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	0.500	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL				50.310		
OBSERVATIONS	0	0	0	2	0	0
PERCENTAGE OF PLANT EFFLUENT	0.000%			1.227%		

NORTHEAST REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : BLIND RIVER
PLANT : BLIND RIVER WPCP
WORKS NUMBER : 110002416
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 3.50 1000 m3
POPULATION SERVED : 3200

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE HURON
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	0.545	-	2	-	4.0	2
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.545		2		4.0	2
OBSERVATIONS	1	0	1	0	1	1
PERCENTAGE OF PLANT EFFLUENT	0.075%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : ESPANOLA
PLANT : ESPANOLA WPCP
WORKS NUMBER : 110000212
TREATMENT : PRIMARY

DESIGN CAPACITY : 3.00 1000 m3
POPULATION SERVED : 5200

REGION : NORTHEAST
DISTRICT : SUDBURY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : SPANISH RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.590	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	1.818	-	1	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	2.408		1			
OBSERVATIONS	2	0	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.213%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : HORNEPAYNE
PLANT : HORNEPAYNE WPCP
WORKS NUMBER : 110001952
TREATMENT : EXTENDED AERATION

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : JACKFISH RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 1.36 1000 m3
POPULATION SERVED : 1675

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	1.700	12.0	-	1.300	12.0	-
AUG	-	-	-	-	-	-
SEP	0.413	14.0	1	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	2.113	26.0	1	1.300	12.0	
OBSERVATIONS	2	2	1	1	1	0
PERCENTAGE OF PLANT EFFLUENT	0.706%			0.434%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : KAPUSKASING
PLANT : KAPUSKASING WPCP
WORKS NUMBER : 110003004
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 9.09 1000 m3
POPULATION SERVED : 12000

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : KAPUSKASING RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	122.120	36.0	2	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	122.120	36.0	2			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	5.975%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : KIRKLAND LAKE
PLANT : KIRKLAND LAKE WPCP
WORKS NUMBER : 120000015
TREATMENT : CONTACT STABILIZATION
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 13.63 1000 m3
POPULATION SERVED : 12500

REGION : NORTHEAST
DISTRICT : TIMMINS
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : MURDOCK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	8.800	31.8	6	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	2.180	7.7	2	-	-	-
JUL	1.562	5.5	1	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	1.704	6.5	3	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	14.246	51.5	12			
OBSERVATIONS	4	4	4	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.381%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : SAULT STE MARIE
PLANT : WEST END WPCP IN OP 1986
WORKS NUMBER : 110002540
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 0

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : ST MARY'S RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : DIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	6.600	16.0	1	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	6.600	16.0	1			
OBSERVATIONS	1	1	1	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.272%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : STURGEON FALLS
PLANT : STURGEON FALLS WPCP
WORKS NUMBER : 110001435
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3
POPULATION SERVED : 6040

REGION : NORTHEAST
DISTRICT : NORTH BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : STURGEON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.058	1.7	1	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	0.050	2.8	2	-	-	-
JUL	0.014	1.0	2	-	-	-
AUG	0.079	4.6	4	-	-	-
SEP	0.007	0.7	1	-	-	-
OCT	-	-	-	-	-	-
NOV	0.001	0.2	1	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.209	11.0	11			
OBSERVATIONS	6	6	6	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.014%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY	:	TIMMINS	REGION	:	NORTHEAST
PLANT	:	WHITNEY & TISDALE WPCP	DISTRICT	:	TIMMINS
WORKS NUMBER	:	110001391	OPERATING AUTHORITY	:	MUNICIPAL
TREATMENT	:	EXTENDED AERATION	WATERCOURSE	:	PORCUPINE RIVER
			MAJOR BASIN	:	ARCTIC WATERSHED
			MINOR BASIN	:	JAMES BAY
DESIGN CAPACITY	:	6.81 1000 m3	IJC DESIGNATION	:	NON IJC
POPULATION SERVED	:	7300			

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	1.034	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	1.034					
OBSERVATIONS	1	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.075%			0.000%		

NORTHWEST REGION

1987 BYPASS OCCURRENCES

MUNICIPALITY : GERALDTON
PLANT : GERALDTON WPCP
WORKS NUMBER : 110001649
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 1.81 1000 m3
POPULATION SERVED : 2901

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : LAKE KENOGAMISIS
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	0.159	-	1	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	0.575	-	2	-	-	-
AUG	0.018	-	1	-	-	-
SEP	-	-	-	-	-	-
OCT	2.608	-	7	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	3.360		11			
OBSERVATIONS	4	0	4	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.501%			0.000%		

1987 BYPASS OCCURRENCES

MUNICIPALITY : RED LAKE
PLANT : RED LAKE WPCP
WORKS NUMBER : 110001131
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 2.46 1000 m3
POPULATION SERVED : 1945

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : HOWEY BAY
MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS		
1987	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES	VOLUME (1000m3)	DURATION (Hrs)	# of TIMES
JAN	0.286	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	-	-	-	-	-	-
JUN	-	-	-	-	-	-
JUL	-	-	-	-	-	-
AUG	-	-	-	-	-	-
SEP	-	-	-	-	-	-
OCT	-	-	-	-	-	-
NOV	-	-	-	-	-	-
DEC	-	-	-	-	-	-
TOTAL	0.286					
OBSERVATIONS	1	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	0.048%			0.000%		